SAMSUNG

E-MANUAL

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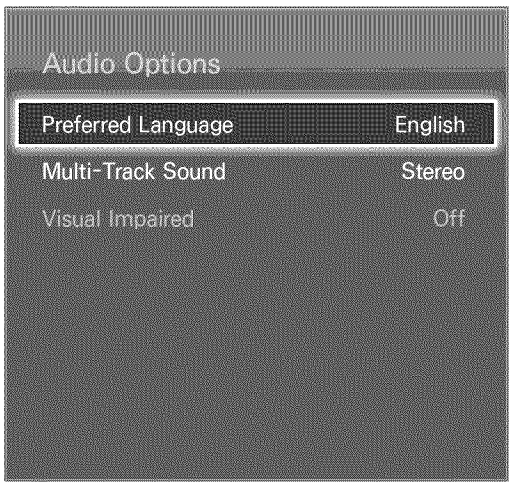
Model_____ Serial No._____

Broadcast Audio Options

Screen Menu > Broadcasting > Audio Options Try Now



The displayed image may differ depending on the model.

Configure the program's audio language. Using this option is different for analog and digital channels.

Digital Broadcast Audio Options

- **Preferred Language**: Digital broadcasts are embedded with audio signals in multiple languages which users can choose from. You do not need to manually configure digital broadcasts that support the designated language. If the designated language is not supported, the default audio language chosen by the TV station will be heard. Try Now
- **Visual Impaired**: Activate the audio guide for the visually impaired. This is only available with broadcasts that provide this service. Try Now

Analog Broadcast Audio Options

- **Multi-Track Sound**: Configure the audio for the current broadcast. You can select a sound you want to listen from among the ones being broadcasted. **Multi-Track Sound** may differ depending on the program being broadcast or broadcast signal. Although user set this option to stereo, if the broadcast signal or program is not supported a stereo, this option will be set to mono automatically. Try Now

Select the virtual remote panel's INFO button to view the current broadcast's audio signal information.

Select the virtual remote panel's TOOLS button while watching TV to access and configure the **Multi-Track Sound** setting.

Sports Mode

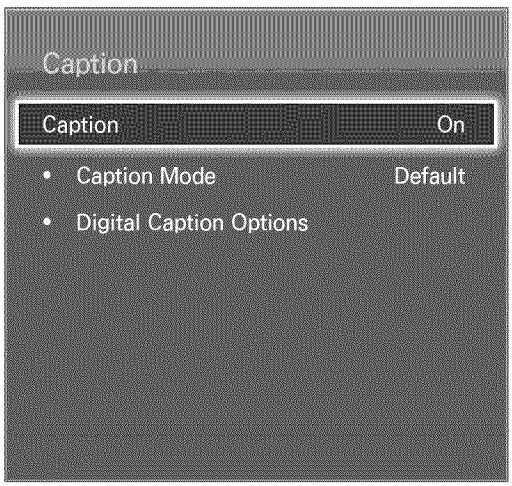
Screen Menu > Smart Features > Sports Mode

This functions is not available on U.S.A. and Canada.

Enable Sports Mode for the optimal sports viewing experience. However, enabling Sports Mode disables the Picture, Sound and Broadcasting menu options. Disabling Sports Mode restores the previous Picture and Sound settings.

Subtitles

Screen Menu > Broadcasting > Caption Try Now



The displayed image may differ depending on the model.

View subtitles along with subtitle-enabled digital and analog broadcasts.

Show Subtitles

Screen Menu > Broadcasting > Caption > Caption Try Now

Show subtitles. Subtitles will be displayed when you choose a broadcast that supports subtitles.

DVD Subtitles are only available when connected to an external input connector.

Subtitle Options

Screen Menu > Broadcasting > Caption > Caption Mode Try Now

Select a subtitle mode. The list of modes may vary depending on the broadcast.

- Default / CC1 ~ CC4 / Text1 ~ Text4: (analog channels only) The analog caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the analog caption function may or may not work with digital channels.)
- Default / Service1 ~ Service6 / CC1 ~ CC4 / Text1 ~ Text4: (Digital channels only) The digital caption function works with digital channels. Service1 - Service6 may not be available in digital caption mode depending on the broadcast.

Subtitle Display Options

Screen Menu > Broadcasting > Caption > Digital Caption Options Try Now

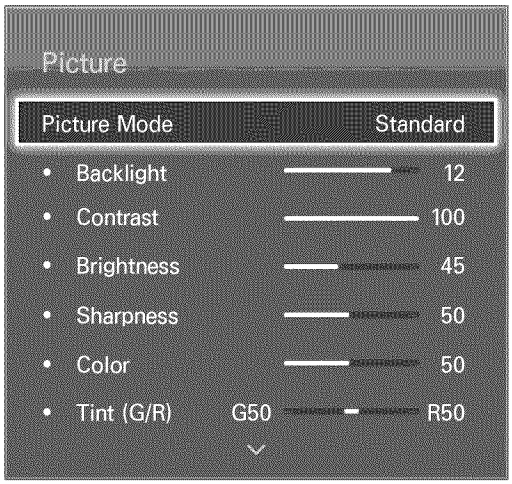
Specify the foreground and background settings. This option is available for digital channels.

- Size: Choose the subtitle size from the list.
- Font Style: Choose the foreground style from the list.
- Font Color: Choose a foreground color from the list.
- Background Color: Choose a background color from the list.
- Font Opacity: Choose a foreground opacity level from the list.
- Background Opacity: Choose a background opacity level from the list.
- Return to Default: Restores all subtitle display options to the Default settings. Default applies settings chosen by the TV station.

The foreground and background color and opacity settings cannot be the same.

Basic Picture Settings

Screen Menu > Picture



The displayed image may differ depending on the model.

The basic image settings alter the look and feel of the image displayed on the TV screen.

Changing the Picture Mode

Screen Menu > Picture > Picture Mode Try Now

Choose the optimal picture mode for your TV viewing conditions. When connected to a Computer via an HDMI-to-DVI cable, only the Standard and Entertain modes can be chosen.

- Dynamic: This increases the brightness of the screen. It is most suitable for bright environments.
- Standard: This is the default mode.
- Natural: This is useful for reducing eye strain. This mode is available for LED TVs only.
- Relax: Consumes less power and reduces eye strain. This mode is only available for PDP TVs.
- Movie: Darkens the screen and reduces glare. Appropriate for darkened rooms, for watching movies, and when experiencing eye fatigue.
- Entertain: Sharpens images for a more dynamic viewing experience. This mode is only available when connected to a computer via an HDMI-to-DVI cable.
- Stadium: This is chosen automatically when Sports Mode is turned on under the Smart Features menu. This functions is not available on U.S.A. and Canada.

Picture Quality

Screen Menu > Picture

Choose a Picture Mode and then select the following options to display a slide bar that allows the corresponding setting to be adjusted. Adjust the value by dragging left/right on the touch pad and change the setting by dragging up/down on the touch pad. Adjusted values are applied to the current source and will remain in effect the next time the source is selected. When connected to a computer via an HDMI-to-DVI cable, only the Color and Tint (G/R) adjustment options can be chosen.

- Backlight

  Adjusts the brightness of individual pixels. Decreasing the brightness reduces power consumption. This option is only available for LED TVs.

- Cell Light

  Adjusts the brightness of the panel. Decreasing the brightness reduces power consumption. This option is only available for PDP TVs.

- Contrast

  Adjusts the screen contrast. Try Now

- Brightness

  Adjusts the overall brightness. Try Now

- Sharpness

  Sharpens or dulls the edges of objects. Try Now

- Color

  Adjusts the overall color saturation. Try Now

- Tint (G/R)

  Adjusts the ratio of green to red. Increase the green value to saturate the greens and the red value to saturate the reds. Try Now

Applying the Current Picture Quality Setting to Another Input

Screen Menu> Picture > Apply Picture Mode Try Now

You can apply the picture quality setting that you configured for the TV to all external devices connected to the TV.

To apply the setting to all external devices connected to the TV, select All Sources. To only apply the setting to the current input, select Current Source.

Picture Size

Screen Menu > Picture > Picture Size > Picture Size

Most TV programs and videos are displayed in full screen, but some programs and videos don't fit the screen. Users can change the picture size for such programs and videos. However, the available size options may differ, depending on the video source. For details, see "Picture Size and Input Signal".

- 16:9: Set the picture to the 16:9 wide-screen format.
- Zoom1: Magnifies the 16:9 screen size to up and down. A magnified picture can be moved up and down.
- Zoom2: Magnifies the Zoom1 screen size to up and down. A magnified picture can be moved up and down.
- Wide Fit: Enlarge the aspect ratio of the picture so it fits the entire screen. Enjoy 4:3 images as undistorted 16:9 images.
- 4:3: Sets the picture to basic 4:3 mode.

⚠ **Do not leave the TV in 4:3 mode for an extended period. The dark borders displayed on the left and right/top and bottom of the screen may cause image retention (screen burn). This is not covered by the warranty. This mode is available for PDP TVs only.**

- Screen Fit: Displays the full image without any cutoff.
- Smart View 1: Reduces a 16:9 picture by 50%. This mode is only available for LED TVs and in HDMI mode.
- Smart View 2: Reduces a 16:9 picture by 25%. This mode is only available for LED TVs and in HDMI or DTV mode.

✎ The **Picture Size** option is not available with images in the UHD resolution because the supported screen size is fixed.

Screen Position

Screen Menu > Picture > Picture Size > Position

The screen position can be adjusted if Picture Size is set to Zoom1, Zoom2, Wide Fit, or Screen Fit. In DTV mode, the screen position cannot be adjusted if the Picture Size is set to Screen Fit.

1. To adjust the screen position, select Position and then Position from the popup window.
2. Drag on the touch pad to move the screen. Once done, select Position and then Close. Select Reset to reset the screen position.

The Position option is not available with images in the UHD resolution because the supported screen size is fixed.

Picture Off

Screen Menu > Picture > Picture Off Try Now

Turns off the screen and plays audio only. To turn the screen back on, press any button except TV and volume buttons.

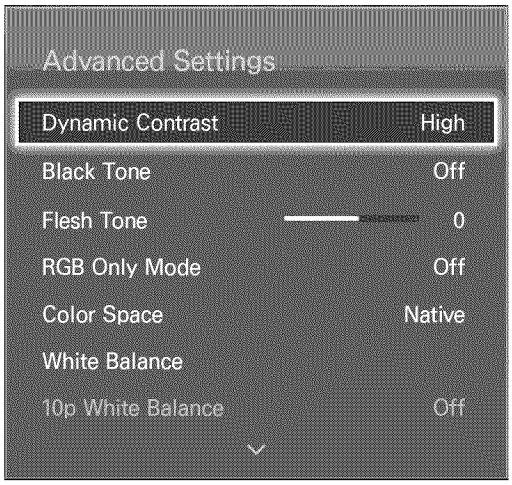
Reset Image Settings

Screen Menu > Picture > Reset Picture Try Now

Reset all image settings for the current Picture Mode to the default settings. This does not affect other Picture Modes.

Advanced Settings

Screen Menu > Picture > Advanced Settings Try Now



The displayed image may differ depending on the model.

Use Advanced Settings to fine-tune how images are displayed on the TV screen. The Advanced Settings option is only available when Picture Mode is set to Standard or Movie. When the TV is connected to a computer via an HDMI-DVI cable, only White Balance and Gamma can be adjusted.

- Dynamic Contrast

  Automatically adjusts the screen contrast. Use this option to achieve the optimal contrast setting. Try Now

- Black Tone

  Adjusts the black color depth. Try Now

- Flesh Tone

  Adjusts the amount of red in skin-color tones. Try Now

- RGB Only Mode

  Adjusts the red, green, and blue levels individually. Try Now

- Color Space

  Adjusts the range of colors that can be expressed on screen. Auto automatically adjusts the color space depending on the input signal, and Native applies a range that is wider than the input signal. Custom allow the user to manually adjust a range of the desired color in the colors of the input signal. Try Now

- White Balance

  Adjusts the color temperature of the picture to make white objects look white and the overall picture appear natural. Adjust each color's luminosity with the offset menu and the brightness with the gain menu. To restore the default values, select Reset. Try Now

- 10p White Balance

  Adjusts the white balance by adjusting the brightness of the red, green, and blue elements in 10-point intervals. This option is only available when Picture Mode is set to Movie and may not be supported by some external devices. Try Now

- Gamma

  Adjusts the primary color intensity. Try Now

- Expert Pattern

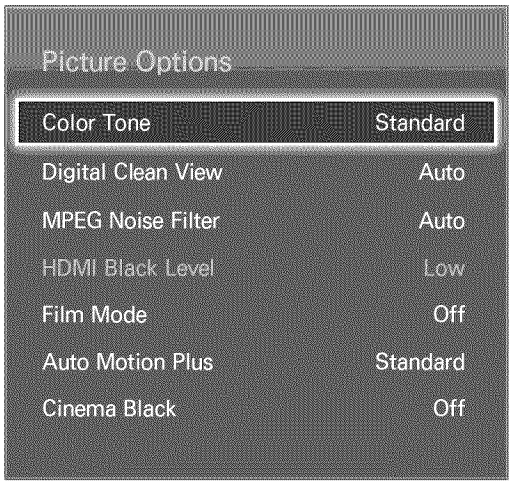
  Displays picture calibration patterns on the screen without using a separate pattern generator or filter. Pattern1 is used to calibrate the contrast, and Pattern2 is used for calibrating the color and color saturation. If the screen menu disappears or a different menu is activated while the screen is being calibrated, this option will save the changes up to that point and automatically deactivate that menu. This feature is enabled in Component and HDMI modes only. Try Now

- Motion Lighting

  Adjusts the picture brightness depending on the on-screen movements for reduced power consumption. This feature is only available when Picture Mode is set to Standard and is not available in 3D mode. In addition, adjusting Contrast or Brightness automatically deactivates this feature. Try Now

Picture Options

Screen Menu > Picture > Picture Options Try Now



The displayed image may differ depending on the model.

Use Picture Options to further improve the picture quality. When connected to a computer via an HDMI-to-DVI cable, users can only change Color Tone.

- Color Tone

  Adjusts the color tone. The setting is applied on an individual Picture Mode basis. When Picture Mode is changed, the corresponding setting will apply automatically. If Picture Mode is set to Dynamic, users can only choose between Cool and Standard. Try Now

- Digital Clean View

  Reduces static and ghosting caused by weak signals. This feature is only available for ATV channels. Selecting Auto Visualization displays the signal strength on the screen. Green indicates the best possible signal. Try Now

- MPEG Noise Filter

  Reduces MPEG noise and improves the video quality. Try Now

- HDMI Black Level

  This is available only for video input via an HDMI cable. Use this to reduce image retention that may occur when watching video from an external device. Choose one of the black levels. Try Now

- Film Mode

  Optimizes the picture quality for movies. Select the mode for watching movies. This feature is only available when watching TV or when the input signal is AV, Component (480i, 1080i), or HDMI (1080i). The Cinema Smooth option is only active when the TV inputs an HDMI 24Hz signal. The Cinema Smooth option is only available for PDP 8500 series. Try Now

- Motion Judder Canceller

  Optimize screen for displaying fast pace scenes for movies. This feature is only available for PDP TVs.

- Black optimizer

  Adjust overall black color depth to give a change to picture depth. This is not available when playing a media file or using the TV as a computer display. This feature is only available for PDP TVs.

- Auto Motion Plus

  Use this to reduce blur and judder from scenes with rapid movement. If you select Custom, you can configure the afterimage and screen trembling removal ratio and you can view a sharper image through the LED Clear Motion function. This feature is only available for LED TVs.

  ✎ While **Auto Motion Plus** is running, select the virtual remote panel's **INFO** button to display the resolution and frequency of the incoming video signal (60Hz). The displayed frequency is not the same as the frequency of the picture the TV is displaying when Auto Motion Plus is activated.

- Smart LED

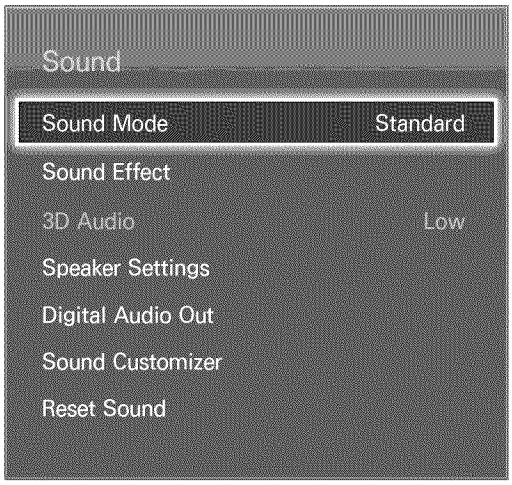
  This controls the brightness of individual areas on screen to maximum contrast automatically. This function is not supported depending on the region or model.

- Cinema Black

  In Movie mode, this feature dims the top and bottom areas of the video image to provide a more immersive viewing experience. This function is available for LED 7450/7500, 8000 series models only.

Basic Sound Settings

Screen Menu > Sound



The displayed image may differ depending on the model.

Use the Sound Settings to change the sound mode, enable/disable surround sound, adjust the equalizer, and optimize the TV's sound.

Changing the Sound Mode

Screen Menu > Sound > Sound Mode Try Now

Sound modes make adjustments to the sound output. However, Sound Modes are not available when using external speakers only.

- Standard: This is the normal sound mode.
- Music: This mode emphasizes normal music instead of voices.
- Movie: This mode is calibrated to provide the best sound for movies.
- Clear Voice: This mode emphasizes voices.
- Amplify: This increases the overall intensity of high-frequency sounds for a better listening experience. It is designed for hearing-impaired listeners.
- Stadium: This is chosen automatically when Sports Mode is turned on under the Smart Features menu. This functions is not available on U.S.A. and Canada.

Adjusting the Sound Settings

Screen Menu > Sound > Sound Effect Try Now

Use sound effects to alter how the TV projects sound. These options are available only when Speaker Select is set to TV Speaker and Sound Mode is set to Standard.

- Virtual Surround: Produces sound that will make you feel like you are sitting in a movie theater or concert hall. Try Now
- Dialog Clarity: Increases the voice intensity to make dialog clearer. Try Now
- Equalizer: Adjusts the speaker balance and makes bandwidth adjustments. Select Reset to reset the settings. Try Now

Auto Volume

Screen Menu > Sound > Speaker Settings > Auto Volume Try Now

Because each station has its own set of broadcasting conditions, the volume may fluctuate as the channel changes. The Auto Volume function automatically adjusts the volume of a channel by lowering or raising the sound output. Normal applies a normal level of volume adjustment, whereas Night applies a slightly lower volume level than Normal and is ideal for nighttime TV viewing. To use the volume control of a connected source device, deactivate the Auto Volume function. When using the Auto Volume function with a source device, the device's volume control may not function properly.

TV Installation Type

Screen Menu > Sound > Speaker Settings > TV Installation Type Try Now

Select the TV's installation type. Choose between Wall Mount and Stand to optimize the TV's sound automatically.

Resetting the Sound

Screen Menu > Sound > Reset Sound Try Now

This resets all sound settings to the factory defaults.

Sound Customizer

Screen Menu > Sound > Sound Customizer Try Now

The displayed image may differ depending on the model.

Sound Customizer lets you calibrate the TV for the optimal sound quality based on the user's hearing level and the ambient conditions.

Creating a Custom Sound

Screen Menu > Sound > Sound Customizer > Add Custom Sound Try Now

Remain quiet and run Add Custom Sound.

1. Select Start to preview a test tone. Select Next to proceed.
2. A 6-step test will start. During each stage, select Stop when you can hear the test tone. If you want to listen to it again, select Retry. Once the test is complete, you can compare the original sound to the calibrated sound.
3. Select Next and enter a name for the calibrated sound profile.

You can select a custom sound profile from Custom Sound Profile (Sound > Sound Customizer > Custom Sound Profile). Try Now

Modifying Sound Profiles

Screen Menu > Sound > Sound Customizer > Edit Custom Sound Try Now

Choose one of the custom sound profiles to modify it. Follow the same steps as used in creating a sound profile. This function is only available when you add a custom sound mode in the Custom Sound Profile.

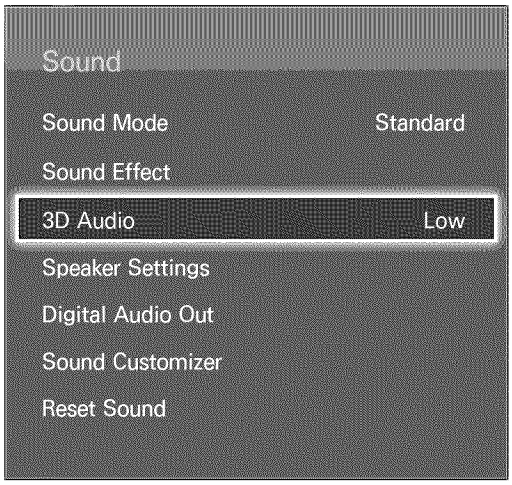
Managing Custom Sounds

Screen Menu > Sound > Sound Customizer > Manage Custom Sound Try Now

Rename or delete custom sound profiles. This function is only available when you add a custom sound mode in the Custom Sound Profile.

3D Audio

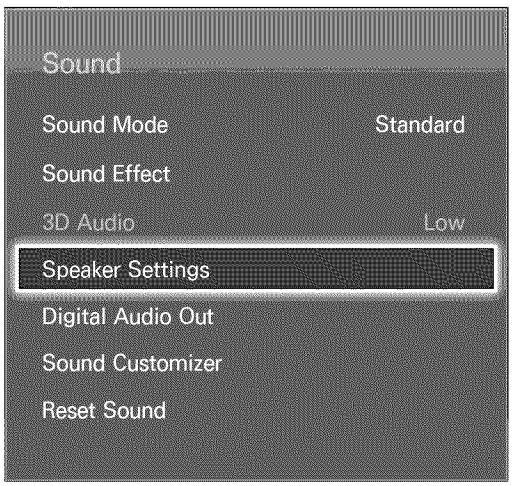
Screen Menu > Sound > 3D Audio Try Now



The displayed image may differ depending on the model.

3D audio technology provides immersive sound that matches the pop-up effect of 3D video by using perspective in the audio depth control. 3D Audio is only available while viewing 3D content.

Speaker Settings



The displayed image may differ depending on the model.

If the TV's audio is sent to an external device such as a home theater system, you can designate which speakers to use and make adjustments to eliminate decoding speed echoes.

Speaker Select

Screen Menu > Sound > Speaker Settings > Speaker Select Try Now

You can choose which speakers to use from among available several speakers. Choose one from the list of speakers. To use both the TV speakers and the AV receiver speakers simultaneously, set this option to TV Speaker. If there is a delay between the two sounds, choose any other than TV Speaker to mute the TV speakers.

Using the external speakers only disables the volume button and the mute function. In addition, certain Sound options will be disabled.

Digital Audio Output

Screen Menu > Sound > Digital Audio Out Try Now

This TV is SPDIF-enabled. The Sony Philips Digital Interface (SPDIF) provides digital audio output to speakers and various digital devices, including A/V Receivers and home theaters. This feature reduces interference and distortion.

- Audio Format: Selects the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) formats may vary depending on the input source. Try Now
- Audio Delay: This setting helps correct timing mismatches between the audio and video tracks when watching TV and listening to audio through a digital audio device. Enabling the feature displays a slide bar that you can use to adjust the delay by up to 250ms. Try Now

Samsung Audio Device Connection

Screen Menu > Sound > Speaker Settings > SoundShare Settings

Connect the TV to a Samsung audio device for a richer, clearer sound. This function is available for Samsung Audio Device supported the SoundShare function.

Pair the Samsung audio device using the TV's Bluetooth function. Refer to the Samsung audio device's operating manual for more information on pairing.

- Add New Device

  Enables/disables SoundShare. Connection signals from new devices are ignored if they are set to Off.

- Samsung Audio Device List

  Displays a list of paired Samsung audio devices. Select a device to display its menu options. Activate/deactivate the audio device or remove it from the list.

  When using a Bluetooth audio device, a slight mismatch between the audio and video may occur, depending on the content.

Clock and Timer

The displayed image may differ depending on the model.

Use the clock and timer to make scheduled use of the TV easier and more efficient. Once the clock has been set, you can select the virtual remote panel's INFO button to check the current time. The clock must be reset every time the power is disconnected.

Setting the Time

Screen Menu > System > Time > Clock Try Now

Set the clock manually or automatically.

Auto

Automatically download the correct time from a digital channel. To enable this option, an antenna cable has to be connected to the TV. The accuracy of the time information received may vary depending on the channel and signal. Set **Clock Mode** to **Auto**.

Time Zone and DST may not be supported depending on the country.

- **DST**: Set the DST (Daylight Savings Time).
- **Time Zone**: Choose your time zone.

Time Offset

Screen Menu > **System** > **Time** > **Clock** > **Time Offset** Try Now

If the set time is not accurate, users can set the time offset to adjust the time difference hourly from -12 to +12 hour. Changing **Time Offset** is only available, when the **Time** is set to auto, and is set through a network.

The current time will be set through a network, if the TV fails to receive the time information including the broadcast signal from TV stations. (ex: Watching TV via set-top box, Satellite receiver, or etc)

Manual

Manually enter the time. Set **Clock Mode** to **Manual** and then select **Clock Set** to enter the current time and date.

Sleep Timer

Screen Menu > **System** > **Time** > **Sleep Timer** Try Now

This function automatically shuts off the TV after a preconfigured period of time. You can set the timer up to 180 minutes in 30 minute increments.

On Timer

Screen Menu > System > Time > On Timer Try Now

Set the On Timer so that the TV turns on automatically at a chosen time. Only three On Timer settings can run concurrently. The clock must be set for the On Timer to work.

- Setup: Specify the dates and duration. Use Manual to specify the days of the week.
- Time: Specifies the on time.
- Volume: Specifies the volume when the TV turns on.
- Source: Selects a signal source from the list. Specify a channel or source to be displayed when the TV turns on. To specify a USB device, a USB device must first be connected to the TV. To playback media from an HDMI or Component source such as a DVD player or Blu-ray player, the device must already be turned on and playing the media when the TV is turned on.
- Antenna: Set Source to TV to select a broadcast signal.
- Channel: Set Source to TV to select a channel.
- Music / Photo: Set Source to USB to specify a USB device folder containing music and image files. Selecting both music and image files plays the music files and displays the images at the same time.

This feature will not function properly if the selected USB device does not contain media files or a folder has not been specified.

The slideshow will not start if there is only one image file on the USB device.

Folders with long names cannot be selected.

Always use different folder names for multiple USB devices.

Use a USB memory stick or multi-card reader. **On Timer** may not work with certain battery-powered USB devices, MP3 players, or PMPs because the TV may take too long to recognize the device.

Off Timer

Screen Menu > System > Time > Off Timer Try Now

Set the Off Timer to turn the TV off automatically at a specific time. Only three Off Timer settings can be entered concurrently. The clock must be set for the Off Timer to work.

- Setup: Specifies the date or period to run the function. Use Manual to specify the days of the week.
- Time: Sets the time for the TV to automatically turn off.

Screen Protection and Maintenance

The displayed image may differ depending on the model.

Several onboard functions exist that help maintain the TV beyond its useful lifespan and decrease power consumption.

Eco Solution

Screen Menu > System > Eco Solution Try Now

Eco Solution adjusts the TV's brightness level and prevents overheating to reduce overall power consumption.

- Energy Saving

  Select a brightness setting from the list to reduce the TV's power consumption. Try Now

- Eco Sensor

  Automatically adjusts the TV's brightness level based on the ambient light level to reduce the TV's power consumption. If the Eco Sensor has adjusted the screen's brightness level, you can manually adjust the screen's minimum brightness level by adjusting Min. Backlight or Min Cell Light (applicable models). If Eco Sensor is enabled and the Picture menu's Backlight or Cell Light (applicable models) value is changed, Eco Sensor is automatically disabled. Try Now

- No Signal Power Off

  Select a time from the list. If no signal is received for the specified duration, the TV will automatically cut off the power to reduce power consumption. Try Now

- Auto Power Off

  If the TV remains turned on for four hours without any user input, the TV will automatically turn off to prevent overheating. Try Now

Screen Burn Protection

Screen Menu > System > Screen Burn Protection

This feature is only available for PDP TVs.

To reduce the possibility of screen burn, the TV uses Pixel Shift screen burn prevention technology. Pixel Shift moves the picture slightly on the screen to avoid over-using some elements and under-using others. The Pixel Shift Time setting allows users to program the time between picture movements, in minutes.

The TV also has the following additional screen burn protection functions:

- Pixel Shift
- Auto Protection Time
- Scrolling
- Side Gray

Pixel Shift

Screen Menu > System > Screen Burn Protection > Pixel Shift

Set the TV to very slightly shift pixels on the PDP screen in a horizontal or vertical direction to minimize burned-in after-images.

The Pixel Shift value may differ depending on the monitor size and mode. It is not available in Screen Fit mode.

Settings:

- Horizontal: Available Settings: 0 - 4 (pixels), Optimum settings for TV/AV/Component/HDMI: 4
- Vertical: Available Settings: 0 - 4 (pixels), Optimum settings for TV/AV/Component/HDMI: 4
- Time (minutes): 1 - 4 min, Optimum settings for TV/AV/Component/HDMI: 4 min

Auto Protection Time

Screen Menu > System > Screen Burn Protection > Auto Protection Time

If the screen displays a still image for a certain period of, the TV activates the screen saver to prevent the formation of burnt-in ghost images.

Scrolling

Screen Menu > System > Screen Burn Protection > Scrolling

This removes after-images on the screen by illuminating all the pixels on the PDP according to a set pattern. Use this when there are after-images or symbols on the screen, especially when a still image was displayed on the screen for a long time.

The after-image removal function has to be executed for approximately 1 hour to effectively remove after-images. If the after-image is not removed the first time, repeat the process.

Press any button to cancel this process.

Side Gray

Screen Menu > System > Screen Burn Protection > Side Gray

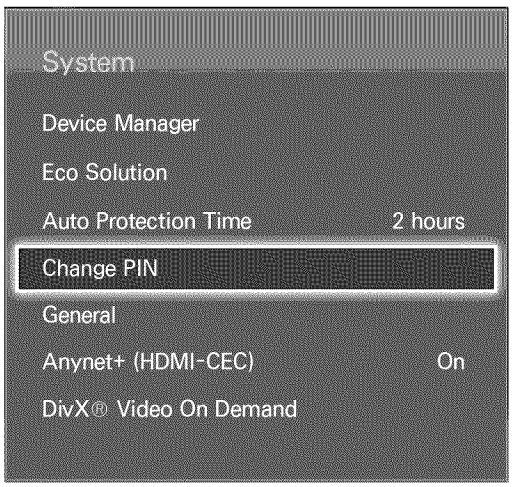
This allows selection of colors for the sidebars the TV displays when the screen size is set to 4:3. The default color is gray.

Auto Protection Time

Screen Menu > System > Auto Protection Time

Select a time from the list. If a still image is shown on the screen for the specified duration of time, the TV will automatically activate the Screen Burn Protection function to prevent burnt-in ghost images. This feature is only available for LED TVs.

Password



The displayed image may differ depending on the model.

This TV requires a password to lock out channels and to reset its settings to the factory default.

Change Password

Screen Menu > System > Change PIN Try Now

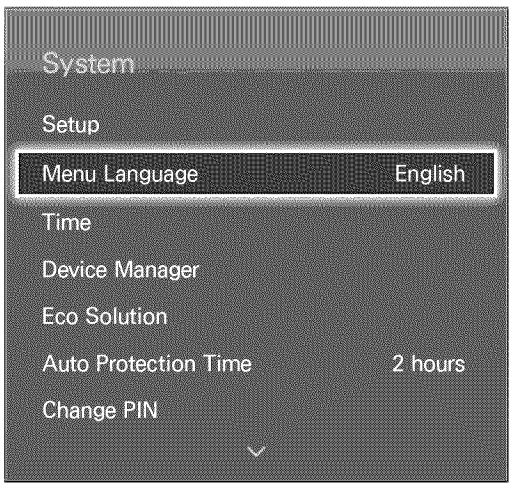
Change the TV's password.

1. Run Change PIN and then enter the current password in the password field. The default password is 0000.
2. Enter a new password and then enter it again to confirm it. The password change is complete.

If you forget the PIN code, press the buttons in the following sequence which resets the PIN to "0-0-0-0":

When the TV turnes on: MUTE → Volume up → RETURN → Volume down → RETURN → Volume up → RETURN

Additional Features



The displayed image may differ depending on the model.

There are many elements available for customizing the TV for individual user preferences.

Changing the Menu Language

Screen Menu > System > Menu Language Try Now

Select a menu language from the list.

Game Mode

Screen Menu > System > General > Game Mode Try Now

Game Mode optimizes the TV's settings for playing video games on a gaming console such as PlayStation™ or Xbox™. Read the following information before using Game Mode.

Precautions and Restrictions

- Game Mode cannot be used for normal TV viewing.
- Connect the gaming console before enabling Game Mode. Otherwise, the picture quality may suffer.
- Game Mode can result in some images shaking.
- Enabling Game Mode automatically sets Picture Mode to Standard and Sound Mode to Movie.
- Once finished, disconnect the gaming console and disable Game Mode before plugging in a different external device.

BD Wise

Screen Menu > System > General > BD Wise Try Now

Connecting a Samsung DVD player, Blu-ray player, or home theater system that supports BD Wise enables you to enjoy the richest colors and picture quality possible. Enabling BD Wise automatically optimizes the TV's resolution. This feature is only available when the external device is connected via an HDMI cable.

Menu Transparency

Screen Menu > System > General > Menu Transparency Try Now

Adjust the menu screen's transparency.

Sound Feedback

Screen Menu > System > General > Sound Feedback Try Now

Adjust the sound feedback volume or disable it entirely. Sound feedback is an audio cue that plays when you move the focus or make a selection.

Panel Locking

Screen Menu > System > General > Panel Lock Try Now

Lock or unlock all the keys on the front panel. The panel keys are located at the back of the TV and can be used to select options, to change the channel, and to adjust the volume.

Booting Logo

Screen Menu > System > General > Boot Logo Try Now

Enable/disable displaying the logo while the TV starts up.

Light Effect

Screen Menu > System > General > Light Effect

You can turn the LED on the TV's front panel on or off. Turn it off to save power or if the LED is too bright for you. This function may not be available, depending on the model.

- Set the Light Effect to Off to reduce the power consumption.
- The color of light may vary depending on the model.

DivX® Video On Demand

Screen Menu > System > DivX® Video On Demand Try Now

Product registration is required to play back videos protected with DivX® DRM. Visit the DivX website and register the code displayed on the screen.

Smart Hub

Screen Menu > Smart Features > Open Smart Hub Try Now

This TV features Smart Hub, a multi-purpose entertainment and family center. With Smart Hub, users can surf the web, download applications, and stay in touch with family and friends through social networking services. In addition, you can enjoy photo, video, and music files stored on external storage devices.

Press the button to launch Smart Hub. Choose a service using the icons displayed in the top part of the screen.

- **Social**: Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. You can also make video calls to friends by the TV camera.
- **Apps**: Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV.
- **On TV**: Check a listing of programs that are currently airing and are scheduled to air.
- **Movies & TV Shows**: Purchase and watch movies and TV shows without the need for a separate external device.
- **Photos, Videos & Music**: Play back photo, video, and music files from an external storage device.

Use ◀◀ or ▶▶ to change the Smart Hub screens.

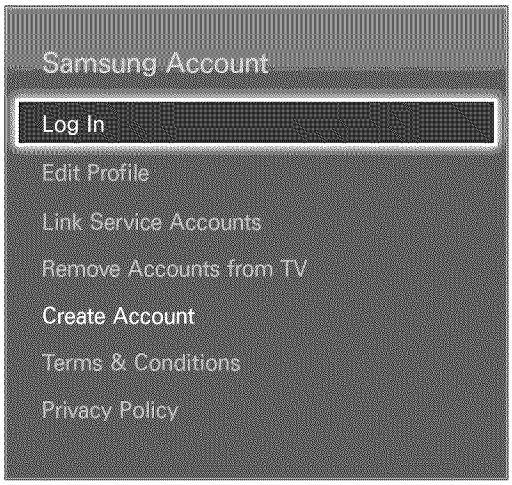
Agreements Required to Use Smart Hub

Screen Menu > Smart Features > Terms and Conditions, Privacy Policy

Carefully read the terms and conditions to use Smart Hub, and determine whether or not to agree to them. Users cannot use Smart Hub fully unless they agree to them.

Samsung Account

Screen Menu > Smart Features > Samsung Account



The displayed image may differ depending on the model.

A Samsung account allows you to get even more out of Smart Hub. You can create a Samsung account using your email address.

Creating a Samsung Account

Screen Menu > Smart Features > Samsung Account > Create Account > Create Samsung Account

From the login screen, select Create Account and then follow the on-screen instructions.

Once a Samsung account has been created, a confirmation email will be sent to the email address you entered as your ID. Open the confirmation email and click on the confirmation button to finalize the Samsung account setup process.

Creating a Samsung Account Using a Facebook Account

Screen Menu > Smart Features > Samsung Account > Create Account > Create Samsung Account with Facebook

A Facebook account makes it easier to create a Samsung account. When a Samsung account is created using a Facebook account, the Facebook account is also registered on the TV.

Terms and Conditions, Privacy Policy

Screen Menu > Smart Features > Samsung Account > Terms & Conditions / Privacy Policy

Carefully read the terms and conditions to use Samsung Account, and determine whether or not to agree to them. Users cannot use Samsung Account fully unless they agree to them. However, you can only view the entire terms and conditions after signing in with your Samsung account and you can use your Samsung Account after agreeing to the terms and conditions.

Logging In

Screen Menu > Smart Features > Samsung Account > Log In

Use your Samsung account to log into the Smart Hub. Enter your ID and password and then select Log In.

The Remember my password option lets you login without having to enter your password each time. Check this option to enable it. Check the Sign me in automatically option if you want to log into Smart Hub automatically.

If you forgot your password, select Reset password to receive the password resetting instructions via email.

Linking a Samsung Account to Other Accounts

Screen Menu > Smart Features > Samsung Account > Link Service Accounts

Linking your Samsung account to other accounts lets you automatically log into your linked accounts when you log into your Samsung account. For example, you can download the Facebook application and link your Facebook account to your Samsung account. Logging into your Samsung account then automatically logs you into your Facebook account as well.

Log into your Samsung account and select Link Service Accounts to view a list of applications that require login information.

- **Register Service Account**: Select an application, select Register, and then provide the ID and password.
- **Edit**: It is possible to change a registered account. Select an application, select Edit, and enter the ID and password for the new account.
- **Remove**: Select an application to which an account has been registered and then select Deregister.

Managing Accounts

Screen Menu > Smart Features > Samsung Account

Using the Samsung Account menu, you can manage your Samsung account. You can only use this function after signing in with your Samsung account.

- Edit Profile: You can change the basic user information and register your photo and credit card information.
- Remove Accounts from TV: The Samsung account used to sign into the Smart Hub is automatically saved on the TV. You can delete your account information from among the saved accounts on the TV.

Resetting Smart Hub

Screen Menu > Smart Features > Smart Hub Reset

It is possible to remove Samsung accounts and everything linked to them, including apps, from the TV. Enter the password when accessing this menu.

To use Smart Hub fully again after resetting it, users are required to agree to the terms of conditions. Open the System menu, choose Setup, and then follow the initial setup process.

Searching

Users can search many apps and their contents on the TV as well as the Web.

Keyword Search

For U.S.A. and Canada

Press the RECOMM. / SEARCH button. The list appears at the bottom of the screen. Press the RECOMM. / SEARCH button again. Enter search criteria using the on-screen keyboard that appears, and then select Done. A list of search results appears. Select a desired item from a list of search results. The selected item's page appears.

For the other countries

Press the HISTORY / SEARCH button. The list appears at the bottom of the screen. Press the HISTORY / SEARCH button again. Enter search criteria using the on-screen keyboard that appears, and then select Done. A list of search results appears. Select a desired item from a list of search results. The selected item's page appears.

Setting Search Scope

Select ⚙ icon on the Search result screen. User can set up the desired search range in the scope list.

Status and Notification

A notification message window appears at the top of the screen when important messages concerning application updates and Samsung account logins are available. This message window notifies the user of the TV's operating status.

Show Status and Notification Banner

Press the MORE button on the Smart Touch Control and then select STATUS on the virtual remote panel that appears on the screen. The status and notification banner is shown at the top of the screen.

Voice Recognition & Motion Control Configuration

Enable/disable the status and notification banner's Voice Recognition and Motion Control functions. It's also possible to perform the Voice Control Environment Test and the Motion Control Environment Test.

Samsung Account Configuration

Select My Account from the status and notification banner to manage your Samsung account. For more information, refer to "Managing Accounts".

Network Configuration

Select Network Settings from the status and notification banner to configure the network.

For details on how to connect to a wired network, see "Wired Network Setup".

For details on how to connect to a wireless network, see "Wireless Network Setup".

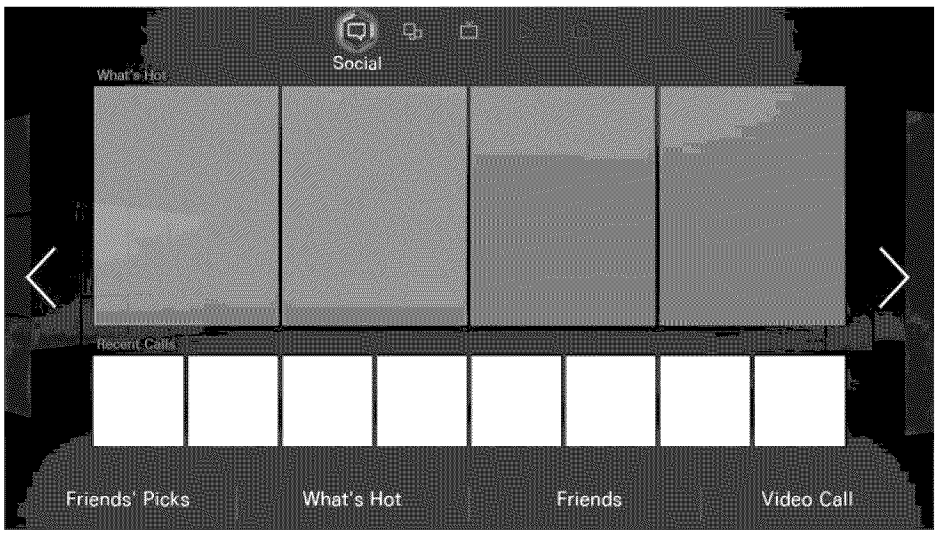
Check Notifications

If you were not able to check the notification message, you can see a list of unread notification messages in the status and notifications banner. You can also check notifications from Notifications (Smart Features > Notifications). Try Now

Selecting a notification from the list allows you to perform corresponding actions with ease. To delete all notifications, select Delete All.

Selecting Service Notice launches WebBrowser to display the notification webpage of the Samsung website.

Social



The displayed image may differ depending on the model.

Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. You can also make video calls to friends by the TV Camera.

Social Settings

Screen Menu > Smart Features > Social Settings Try Now

Checking the Application

Certain applications need to be installed on the TV in order to use the Social feature. If a selected application has not been installed on your TV, you will need to install it first. For more information on installing applications, refer to "Samsung Apps".

Connecting a Service to a Samsung Account

Social service accounts need to be linked to a user's Samsung account first. If you do not have a social service account, create one by visiting the website of that service. For more information on connecting to a social service, refer to "Linking a Samsung Account to Other Accounts".

Watching Videos

Select Friends' Picks or What's Hot at the bottom of the Social screen to display a list of videos. Select a video from the list to view its information and then select Play.

Friend Profile

Select Friends at the bottom of the Social screen to display a list of Facebook and Twitter friends. Select a friend from the list. The selected friend's profile containing his/her basic information and posts is displayed

Select a friend to call

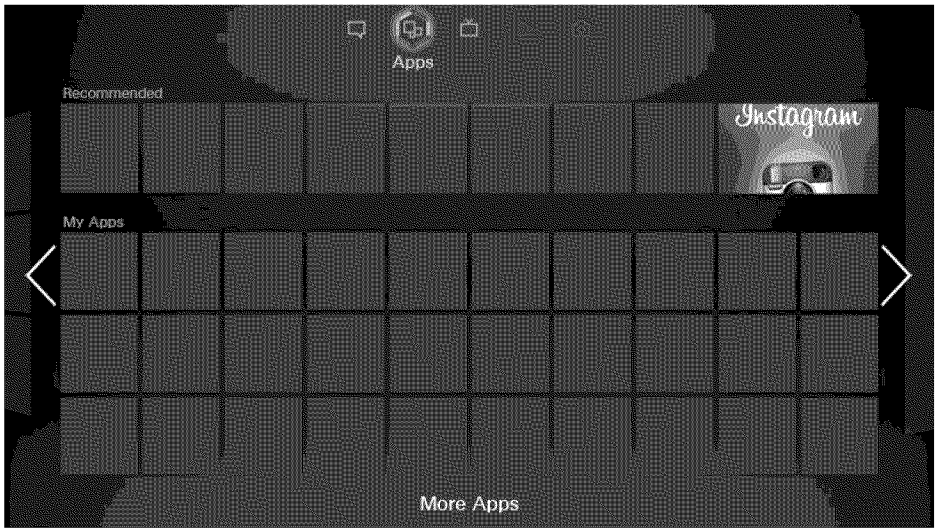
Select Video Call at the bottom of the Social screen. This launches Skype and displays a list of friends. Select a friend to call.

Filters

Log in to a Samsung account to use this function.

Select either Friends' Picks or Friends and Video Call on the Social screen. Use the filter option at the top of the screen to rearrange the list. Select an item. However, this option cannot be used in the What's Hot list.

Apps



The displayed image may differ depending on the model.

Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV. First, check the network and make sure the TV is connected to the Internet. Your TV needs to be connected to the Internet in order to use Apps.

Precautions

- Due to the product characteristics featured on the Samsung Smart Hub, as well as limitations in available content, certain features, applications, and services may not be available on all devices or in all territories. Some Smart Hub features may also require additional peripheral devices or membership fees. Visit http://www.samsung.com for more information on specific device information and content availability. Services and content availability are subject to change without prior notice.
- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- Application services may be provided in English only and available content may vary, depending on the area.
- For more information about applications, visit the applicable service provider's website.
- An unstable Internet connection may cause delays or interruptions. In addition, applications may terminate automatically depending on the network environment. If this occurs, check your Internet connection and try again.
- Application services and updates may become unavailable.
- Application content is subject to change by the service provider without prior notice.
- The service details may vary depending on the user's firmware version.
- The application usage method may vary with future versions of the application. If this is the case, run the application's tutorial or visit the service provider's website.
- In some applications, depending on the policy of the service provider, multi-tasking is not supported.

Installing Standard Applications

Launching Smart Hub for the first time and loading the Apps screen. The TV is automatically downloads and installs the basic applications that correspond to the network your TV is connected to. The types of basic applications may vary depending on your location.

Launching an Application

Navigate to the Smart Hub's Apps screen and then select More Apps located at the bottom of the screen. The list of applications currently installed on your TV is displayed. From this list, select the application you want to launch. Select View (top of the screen) to rearrange the list of downloaded applications by the installation date, launch date, or title.

Samsung Apps

Samsung Apps offers various free and paid news, sports, weather, and gaming applications. Samsung Apps lets you search for applications and install them directly on your TV. Read and agree to the terms and conditions of use and then browse through the categories or directly search for applications.
Try Now

Searching for Apps

Search for applications by name. On the Samsung Apps screen, select the Search Samsung Apps to bring up the keypad. Enter the application's name and then select Done.

Installing Applications

Select the application you wish to install to bring up a screen with detailed information about that application. Select Download to install the selected application. Paid applications, however, must be purchased before you can install them. Visit the Samsung Apps TV website at http://tv.samsungapps.com and recharge your account with App Cash before purchasing paid applications.

Apps Management

You can customize the My Apps screen. You can also manage installed applications and configure application update settings.

Edit My Apps

Navigate to **More Apps** screen, select **Options**, and then select **Edit My Apps**. You can customize the My Apps screen.

Change Order

From the **Edit My Apps** screen, select the applications you wish to rearrange, change the order, and then press the touch pad.

Removing Applications

Remove unused applications from the My Apps' application list. Removed applications are moved to the More Apps list.

From the **Edit My Apps** screen, select the applications you wish to remove and then move them to the first or last row of the My Apps list. An 'X' will appear at the top or bottom of the icons of the selected applications. Move the applications in the direction of the 'X'. A popup window will appear. Select **Yes** from the popup window to remove the selected applications from the My Apps list.

From the **Edit My Apps** screen, select **Delete All** to remove all applications from the My Apps list.

Adding Applications

Applications that have been installed on the TV but do not show up in the My Apps list can be added to the list.

Select the applications you wish to add from the More Apps list at the top of the **Edit My Apps** screen. Selected apps are added to the My Apps list.

Deleting Applications

Delete applications installed on your TV. Deleting an application deletes all data associated with that application.

Navigate to **More Apps** screen, select **Options**, and then select **Delete**. A check box appears on the application icons. Select all the applications you wish to delete. Select all the applications you wish to delete and then select **Delete**. A popup window appears. select **Yes**. Applications in gray cannot be deleted.

You can reinstall deleted applications for free from Samsung Apps.

Managing Application Folders

Create folders and manage applications by group. Navigate to **More Apps** screen, select **Options**, and then **Create Folder**. Enter a name for the new folder.

Select **Options** to rename the folder or move applications to that folder.

Application Lock/Unlock

Lock/unlock applications. Navigate to **More Apps** screen, select **Options**, and then select **Lock / Unlock**. Enter the password and then select the applications you wish to lock. A lock symbol appears on the selected applications. To unlock, simply select the application again.

Application Update

When the application require to update to the latest version, select **Apps** and then select **More Apps**. On the **More Apps** screen, select **Update Apps**, and then select application from the list. The application starts updating to the latest version. However, **Update Apps** appears on the screen only when the update is required.

Setting up the Application Auto Update

To update the applications automatically, select **Options** in the **More Apps** screen, and then select **Auto Update Apps**. Applications will then be updated automatically when an update becomes available.

Fitness

Fitness is an application that helps you stay fit. Create a profile, set up an exercise plan, and start exercising according to a structured regimen. Read and agree to the terms and conditions before using Fitness. Try Now

⚠ **Do a warm-up or some stretches before exercising. Users must stop exercising immediately if they experience pain, or become dizzy, exhausted or short of breath.**

Creating a Profile

Follow the on-screen instructions and enter your information to create a profile.

Kids

This is a quick launcher and recommended list for applications and content that is suitable for children and even provides services not currently installed on your TV. Using Kids, you can download applications and content for your children to your TV. Certain services, however, are fee-based. Try Now

On the Kids screen, select the TOOLS button on the virtual remote panel. The list screen appears. Select Tutorial Video from the list, user can view the introductory video for more information about Kids anytime.

WebBrowser

WebBrowser is a web-browsing application. Using WebBrowser, you can browse the Internet on your TV as you would on your computer and even watch TV while you surf the web. The browsing experience, however, may not be the same as it is on your computer. Use a keyboard and mouse for a more convenient web browsing experience. Try Now

Social Networks

Share your thoughts and comments about a program on the air through social networking services. Social Networks displays social network services such as Twitter, Facebook, Google Talk, on a single screen. You can even post messages and comments in the same manner as you would using a computer. You must first link your Samsung account to the respective SNS accounts before you can access them using Social Networks.

For more information about using the service, visit the application's website.

Linking Service Accounts

Link your SNS (Twitter, Facebook, Google Talk, etc.) to your Samsung account. Launch Social Networks, select an SNS, and then register the account you have with that SNS.

Once linked, you can use the buttons at the bottom of the screen to access the registered SNS. You can update your feed, post comments, and even change the viewing mode.

Apps Settings

Screen Menu > Smart Features > Apps Settings Try Now

Configure the apps installed on your TV.

Auto Ticker

Configure selected tickers to display automatically when the TV is turned on. A ticker is a service that displays stock values, news, and weather updates on the screen in real-time. Enabling the Ticker service brings you up-to-the-minute information while you watch TV. From the **Auto Ticker** list, select the applications to run. If a selected application has not been installed on your TV, you will need to install it first.

Push Notification Settings

Enable/disable push notifications from applications. Push notifications are displayed on the screen as you watch TV. You can then select these notifications to get more information.

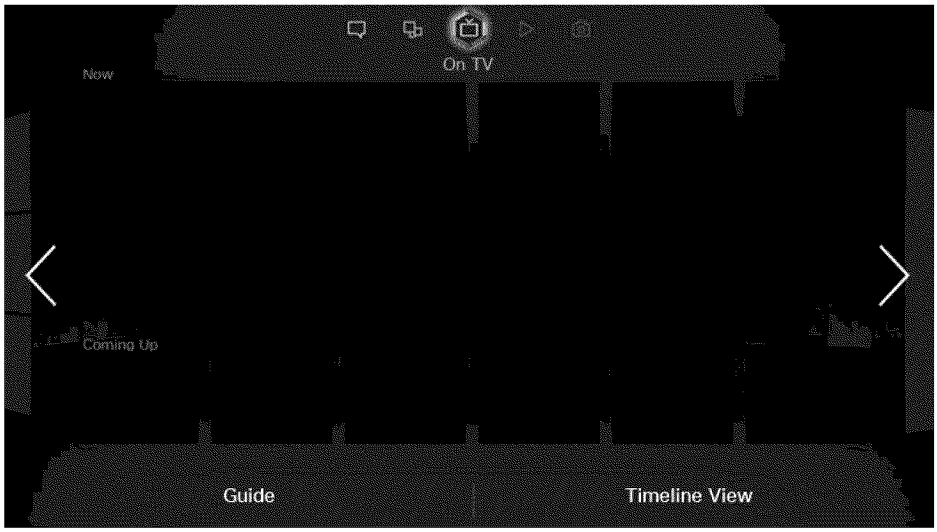
Channel-Bound Apps

Channel-Bound Apps can be used when watching a channel that supports applications for the current program's data services.

Properties

You can view the Apps version, the TV's serial number, and the Netflix ESN. In addition, you can check the TV's total and available memory capacity.

On TV



The displayed image may differ depending on the model.

This functions is only available on U.S.A. and Canada.

While you watch TV, a list of recommended programs on other channels appears on the screen. You can use this list to change the channel and find out more information about the recommended programs including how much time is left until they air.

Branded content is only available on models for sale in the U.S.A.

Certain features within SMART Hub require internet access and may not be available based on service provider, language, dialect and region.

On TV's program and channel information recommendations may differ from actual information depending on service providers and broadcasts.

On TV Settings

Screen Menu > Smart Features > On TV Settings Try Now

Customize the On TV screen.

On TV Setup

Set a broadcast media type and TV stations for the On TV screen, following the on-screen instructions.

Recommendation Notice

With this enabled, when one of popular TV programs that the user has often watched is currently on the air, the TV notifies the user.

Auto Start

You can configure On TV to automatically launch when the TV is turned on.

Recommendation Method

Determine whether to display upcoming TV programs by user preference or general popularity.

Adult Contents Block

With this enabled, adult TV programs are not listed on the On TV screen.

Watching an On-Air Recommended Program

Select a program from the right side of the screen. This changes the channel to the selected program.

Scheduled Recommended Program Info

The following list displays the information and viewing times of recommended programs that have not yet aired. Select a program from the list to see more information about the program and to access the following options:

- **Jump to Channel**: Jump to the selected program's channel.
- **Timer**: Set up a Schedule Viewing.
- **Related Contents**: Displays the related contents list of the selected program. Select a desired contents in the list. User can view the information screen of the selected contents.
- **Share**: Like/dislike the selected program or share information about the selected program via an SNS.

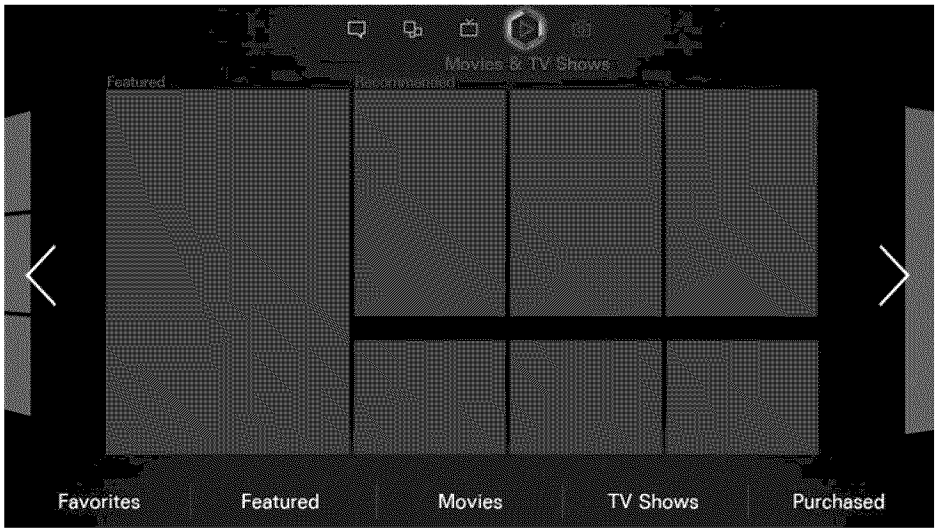
Activating the Guide

Select Guide at the bottom of the screen to launch the Guide. For more information, refer to "Guide".

Program Recommendations by Time

Select Timeline View at the bottom of the screen to display program recommendations for different times of the day.

Movies & TV Shows



The displayed image may differ depending on the model.

This functions is only available on U.S.A.

Movies & TV Shows recommends you Movies and TV Shows video on demand content. This aggregates multiple local VOD content local to help you browse and watch all you want in one place.

Open Smart Hub and move to Movies & TV Shows. You can have recommendations and purchase VOD on TV. Enjoy Premium VOD on TV simply.

This service or some of functions of it may be not available in some countries or region.

Buying Movies

To browse movies and TV shows, select one of the following on the bottom of the screen.

- Favorites: View the user's preferred movies and TV shows.
- Featured: View the most outstanding movies and TV shows.
- Movies: View the latest movies.
- TV Shows: View the latest TV shows.

Playing Movies

Select Purchased at the lower-right corner of the screen. Select one of purchased movies and TV shows to play it.

Parental Control

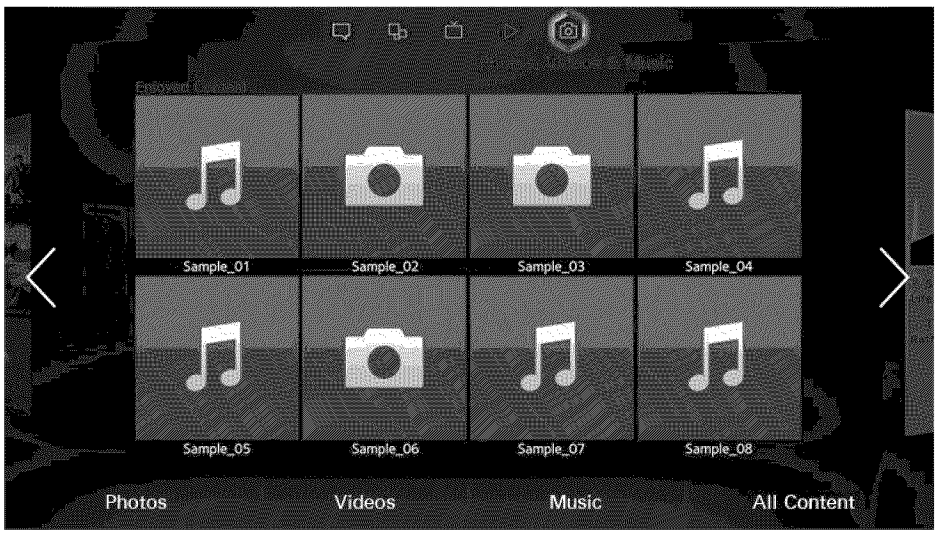
Screen Menu > Smart Features > VOD Rating Lock

Lock movies and TV shows rated a certain class or higher to prevent children from watching them.

Open the Smart Features menu, choose VOD Rating Lock, and enter the passcode.

Turn on VOD Rating Lock and set any necessary options.

Photos, Videos & Music



The displayed image may differ depending on the model.

On the **Photos, Videos & Music** screen, the **Enjoyed Content** panel only shows recently-played media files from either removable storage devices connected to the TV via USB, or DLNA-enabled devices connected to the TV via network.

Enjoy photo, video and music files from an external storage device directly on your TV. Back up important files before connecting an external storage device to the TV. Samsung will not be held responsible for damaged or lost files.

Restrictions

- Supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) these kinds of devices must be connected directly to the TV's USB port. The TV may not be able to recognize the USB device or read the files on the device if it is connected to the TV via a USB extension cable. Do not disconnect the USB device while transferring files.
- When connecting an external hard drive, use the USB (HDD) port. We recommend that you use an external hard drive with its own power adapter.
- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognize some or all the devices. USB devices that use high-power input (500mA or 5V) may not be supported.
- Supported file systems are FAT, exFAT, and NTFS.
- Sorting the files in Folder view mode can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- PTP connection mode is fully available only with digital cameras. When connecting a smartphone or tablet to the TV using PTP mode, it may not be recognized.

Supported File Formats

This TV is capable of playing back the following types of files. For more information, refer to the "Subtitle and Media Contents file formats, and Codec" section.

- **Photos:** .bmp, .jpg, .mpo, .png
- **Music:** .aac, .flac, .m4a, .mpa, .mp3, .ogg, .wma
- **Video:** .3gp, .avi, .asf, .flv, .m2ts, .mkv, .mov, .mp4, .mpg, .mts, .svi, .ts, .tp, .trp, .vob, .vro, .webm, .wmv
- **Subtitles:** .ass, .psb, .smi, .srt, .ssa, .sub, .ttxt, .txt

With .avi, .mkv, and .mp4 files, the TV supports embedded subtitles.

Certain files, depending on how they were encoded, may not play on the TV.

USB Device Connection

Plug the USB device into the TV's USB port. Play back stored media files as follows:

- Connecting a USB device while the TV is turned on displays a popup window. Select the type of media you want to play.
- Move to **Photos, Videos & Music** at the top of the Smart Hub screen. Select the type of media you want to play and then the USB device that contains the files.
- Select the USB device from the **Source** screen. A popup window appears. Select the type of media you want to play.

USB Device Removal

Press the **SOURCE** button to access the Source screen. Select the USB device you want to remove and then select **Tools** at the top of the screen. Select **Remove USB** from the list to safely remove the selected USB device.

Playing all the Content on a Storage Device

Select the All Content on the Photos, Videos & Music screen, you can play all the content saved on a storage device regardless of the type of content (videos, photos, music). Try Now

Clearing the Recent Playlist

Screen Menu > Smart Features > Remove viewing history > Photos, Videos & Music

The Photos, Videos & Music screen displays thumbnails of recently-played media files. Selecting a thumbnail plays the media file.

Using Networked External Storage Devices

This TV can directly display media files from web storage devices and computers and DLNA-enabled devices connected to the TV over a network. To display the media files on an external storage device, the device must support DLNA and be connected to the same network as the TV. For more information, refer to the manual of the external storage device.

For example, you can display the media files on your Smartphone or web storage in the following ways:

- Send a media playback request to the TV from a Smartphone or computer.
- Establish a link between the TV and a computer/Smartphone/web storage and play the media files.
- Use a Smartphone to send a request to the TV to play the media files stored on a computer or use a computer to request playing the media files stored on a Smartphone.
- Log into your Samsung account and play the media files stored on your web storage.

Certain media files stored on a networked external storage device may not play on the TV, depending on their resolution and format. In addition, certain functions may not be available.

Certain files may not play smoothly. If this is the case, use a USB storage device.

Move to Photos, Videos & Music at the top of the Smart Hub screen. Select the media type and then the device where the media file is located. The folder and file list of the selected external storage device are shown.

Allowing DLNA Device Connections

Screen Menu > Network > AllShare Settings > Content Sharing

Select Content Sharing, and a list of devices connected to the same network as the TV appears. Select a device to connect it to the TV. Select a device to allow it to connect to the TV. You can only play media files from devices that have been allowed to connect to the TV. This function is available for all DLNA DMC devices. Alternatively, you can send a media playback request from an external device that has not yet been allowed to connect to the TV and then accept the connection when prompted.

AllShare

AllShare makes it easy to retrieve and enjoy media files from computers and DLNA-enabled devices. However, computers need to be installed with AllShare PC and mobile devices need to support AllShare. For more information, visit the Samsung Content & Service portal (http://content.samsung.com).

You may experience compatibility issues when attempting to play media files via a third-party DLNA server.

Exporting Contents

From the Options list located at the top of the screen, select Send. Select all the contents files you wish to export and then select Send. This exports the selected files to a different storage device. Possible file export pairings are as follows:

Source Device	Target Device
USB Device	DLNA Device, SugarSync, Dropbox, Mobile Device, USB Device
Camera	DLNA Device
DLNA Device	USB Device
SugarSync, Dropbox	USB Device
Mobile Device	USB Device

Videos

Select the video file from the list or select ► button on the virtual remote panel to play video. Use the Smart Touch Control or the on-screen buttons to control the video playback. Press the touch pad to display the screen control buttons and then RETURN to hide them. To stop playing the file, select the ■ or RETURN button on the virtual remote panel. Try Now

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the Options list at the top of the screen, select Play Selected, specify all the video files you wish to play, and then select Play. This creates a playlist. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Select the ⏮/⏭ on-screen button.
- Select the on-screen button and then Search Titles.

Video Scanning

- Drag left/right on the touch pad. Scan 10 seconds backward or forward.
- Select the ◄◄/►► button on the virtual remote panel. This changes the playback speed by up to 300%. To restore normal playback speed, select ► button. Alternatively, select the ►► button while paused to reduce the playback speed (1/8, 1/4, 1/2). Slow playback doesn't support audio and is available in the forward direction only.
- Select the ⏸ button on the virtual remote panel to pause the screen and then select the ⏸ button to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.
- Select the Search on-screen button and then select the Search Scene. This will take you to a scene in the video. If the index information is damaged or unsupported, user will not be able to use the Search Scene function.
- Select the Search on-screen button and then select the Search Time bar. This will take you to a time frame in the video.
- Select the ⏮ on-screen button. This plays the video from the beginning.

Show Subtitles

If the external storage device contains a subtitle file with the same name as the video file being played, you can choose to display subtitles on the screen. Select the Settings on-screen button and then select Subtitle Settings to show subtitles.

If the subtitles appear corrupted, try changing the encoding setting. If the subtitles do not match the video, adjust the sync.

If the subtitles are too small, increase the font size.

Additional Video Playback Settings

- **Repeat**: Select the Repeat Mode on-screen button. This changes the repeat mode. Repeat One repeats the current file only, whereas Repeat All repeats all files contained in the folder.
- **Picture Size**: Select the Picture Size on-screen button and then select the picture size. However, this function is not available on the UHD resolution screen that is supported by UHD S9 models.
- **Rotate**: Select the Rotate on-screen button to rotate the current video 90 degrees clockwise. However, this function is not available on the UHD resolution screen that is supported by UHD S9 models.
- **Receiver**: Select the Receiver on-screen button and then power on the receiver.
- **Picture Mode**: Select the Settings on-screen button and then select Picture Mode. Select a picture mode.
- **Sound Mode**: Select the Settings on-screen button and then select Sound Mode. Select a sound mode.
- **Audio Language**: Select the Settings on-screen button and then select Audio Language. Select an audio language. However, this option is only available with streaming videos that support multiple audio formats.
- **Information**: Select the Settings on-screen button and then select Information to view detailed information about the current video.

Music

Select the music file from the list or press the ▶ button on the virtual remote panel to play music. To exit, select ■ button on the virtual remote panel or press the RETURN button. Try Now

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the Options list at the top of the screen, select Play Selected, specify all the music files you want to play, and then select Play.

This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Music Scanning

- Select the ◀◀/▶▶ button on the virtual remote panel. Scan 10 seconds backward or forward.
- Select the ❚❚ button on the virtual remote panel. This pauses the currently playing music file.

Opening a Different File

- Select the ⏮/⏭ on-screen button.
- Select a file from the playlist.

Additional Music Playback Settings

- **Repeat**: Select the Repeat on-screen button. This changes the repeat mode. One Song repeats the current file only, whereas All repeats all files contained in the playlist.
- **Shuffle**: Select the Shuffle on-screen button. Choose between normal and random play.
- **Receiver**: Select the Receiver on-screen button and then power on the receiver.
- **Sound Mode**: Select the Sound Mode on-screen button. Select a sound mode.
- **Information**: Select the virtual remote panel's INFO button from the playlist to view detailed information about the selected file.

Photos

Select a photo from the list to display it on the screen. Press the touch pad to display the screen control buttons. Press the RETURN to hide them. To exit, select the ■ button on the virtual remote panel or Press the RETURN button. Try Now

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Slide Show

- From the Options list located at the top of the screen, select Slide Show. You can view all photos in the list as a slideshow.
- Press ► from the list.
- Press ► or select the Start Slide Show on-screen button to begin the slideshow.

Slide Show Settings

- **Speed:** Select the ◄◄/►► button on the virtual remote panel or select the Slideshow Settings on-screen button and then select Speed.
- **Effect:** Select the Slideshow Settings on-screen button and then select Effects.

Playlist Creation

From the Options list at the top of the screen, select Play Selected. specify all the photos you want to play, and then select Play. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Drag left/right on the touch pad.
- Select the Previous / Next on-screen button.

Background Music

Enable music to play in the background during a slide show. However, all music files must be located on the same storage device.

Select the Background Music on-screen button while a photo is displayed on the screen or a slide show is in progress. Select the music files you want to listen to and then Play. To play the files in a random order, select Shuffle.

Mini Player

When viewing photos with background music, you can control the music.

Select Background Music from among the on-screen control buttons and select Mini Player.

You can pause playback or skip to the previous or next song.

Additional Photo Playback Settings

- **Zoom**: Select the Zoom on-screen button. Zoom in by up to a factor of 4.
- **Rotate**: Select the Rotate on-screen button. This rotates the current photo 90 degrees clockwise.
- **Receiver**: Select the Receiver on-screen button and then power on the receiver.
- **Picture Mode**: Select the Settings on-screen button and then select Picture Mode. Select a picture mode.
- **Sound Mode**: Select the Settings on-screen button and then select Sound Mode. Select a sound mode. However, this option is not available while background music is playing.
- **Information**: Select the Settings on-screen button and then select Information to view detailed information about the current video.

Anynet+ (HDMI-CEC)

This SMART TV is enabled with Anynet+ (HDMI-CEC), a feature that makes it possible to control Samsung external devices connected to the TV with ease. With Anynet+ (HDMI-CEC), you can use the TV remote panel to operate all compatible Samsung devices that are connected to the TV. However, Anynet+ (HDMI-CEC) only works with the remote panel and not with the panel keys.

Use the TV's remote panel to operate third-party cable boxes, Blu-ray players, and home theaters connected to the TV. For more information, refer to "Universal Remote Setup".

Precautions

- This feature does not support other manufacturer's products.
- Anynet+ devices must be connected to the TV using an HDMI cable. Some HDMI cables may not support Anynet+ (HDMI-CEC). In this case, you will need to replace the HDMI cable.
- The TV remote panel may not function under certain circumstances. In this case, select the Anynet+ device again.
- Anynet+ (HDMI-CEC) only works with external devices that support Anynet+ (HDMI-CEC) and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 compatible external devices (up to 3 of the same type). With home theater systems, however, the number of systems that can be controlled is limited to one.
- A home theater system that has been connected to the TV using an HDMI cable and an optical cable supports 2-channel audio only. However, the home theater is capable of supporting 5.1-channel audio from digital broadcasts.
- To listen to 5.1-channel audio from an external device, connect the device to the TV via an HDMI cable and the device's digital audio output connector directly to the home theater system.

Anynet+ (HDMI-CEC) Setup

Screen Menu > System > Anynet+ (HDMI-CEC) Try Now

Enable/disable Anynet+ (HDMI-CEC).

- Anynet+ (HDMI-CEC): Enables/disables Anynet+ (HDMI-CEC). Disabling this turns off all Anynet+-related features. Try Now
- Auto Turn Off: Turns off external devices when the TV is turned off. Some devices do not support this option. Try Now
- Receiver: Listen to audio through an AV receiver instead of the TV speakers. This option is only available when there is an AV receiver connected to the TV. Try Now

Using the Anynet+ (HDMI-CEC)

You can operate external devices using just the TV remote panel.

Switching between Anynet+ Devices

1. Select the virtual remote panel's TOOLS button to display the list. Select Anynet+ (HDMI-CEC) from the list. A device selection screen will appear.
2. Select a device and wait for the switch to take place. This process may take up to 2 minutes to complete and cannot be cancelled when started.

Alternatively, switch to a different Anynet+ (HDMI-CEC) device by selecting its name from the Source list. However, Anynet+ (HDMI-CEC) cannot be used if a connected input connector is selected.

Anynet+ (HDMI-CEC) Device Menu

Once the TV has switched over to the selected device, you can access the device's menu using the TV's remote panel. Select the virtual remote panel's TOOLS button to display the list. Select Anynet+ (HDMI-CEC) from the list. The following Anynet+ device options will appear. The displayed Anynet+ device options may vary depending on the external device.

- View TV: Select this to switch the remote panel mode to the TV.
- Device List: Displays a list of Anynet+ (HDMI-CEC) devices connected to the TV. To change a device, select a desired device in the list.
- (Connected Device) MENU: Display the menu of the connected device. If the target device is a DVD player, the DVD menu is shown.
- (Connected Device) Tools: Display a list of frequently-used functions that are available for the device. If the target device is a DVD player, the DVD playback menu is shown. Some external devices may not support this option.
- (Connected Device) Title Menu: Display the connected device's title menu. If the target device is a DVD player, the DVD title menu is shown. Some external devices may not support this option.
- Receiver: Listen to audio from the connected external device through an AV receiver, such as a home theater system, instead of the TV speakers. This option is only available when there is an AV receiver connected to the TV. The menu may not be shown with receivers that support audio only.

ARC

ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available with AV receivers that support ARC.

To use ARC, enable it from the Anynet+ (HDMI-CEC) device menu Receiver.

Sharing Mobile Device Screens on the TV

This TV is capable of displaying mobile device screens. You can use the following features to enjoy video, photo, and music files from mobile devices directly on your TV.

- Use an MHL cable to display a mobile device's screen on the TV.
- Use the Screen Mirroring menu to display a mobile device's screen on the TV.

MHL

This Smart TV supports MHL (Mobile High-definition Link) via an MHL cable. Connect an MHL cable to the mobile device and the TV. However, MHL is only available through the TV's HDMI (MHL) port and only when used in conjunction with an MHL-enabled mobile device.

This feature is only available with MHL-certified mobile devices. To find out if your mobile device is certified, visit its manufacturer's website. You can also view a list of MHL-certified devices on the official MHL website (http://www.mhlconsortium.org).

MHL USE

Connect an MHL cable to the mobile device and the TV. Press the SOURCE button and then select the MHL connector to display the mobile device's screen on the TV. The following remote panel functions will also be available:

- Touch pad (Menu navigation / Select), ◀◀ (REW), ▶▶ (FF), ▶ (Play), ❚❚ (Pause), ■ (Stop), ↩ (Previous menu)

When your device is connected with an MHL cable, it charges even when the TV is in Standby mode.

Restrictions

MHL has several requirements:

- If you are using an HDMI adapter, the TV recognizes the signal as an HDMI signal and may respond differently than it would to an MHL-to-HDMI cable connection.
- Upgrade the software to the latest version.
- This product is officially MHL-certified. If users encounter any problem when using the MHL function, they must contact the manufacturer of the device.
- Some mobile devices may not have sufficient specifications or features to support MHL.
- Because the TV screen is wider than most mobile device screens, the picture quality may appear lower on the TV.

Screen Mirroring

Screen Menu > **Network** > **AllShare Settings** > **Screen Mirroring**

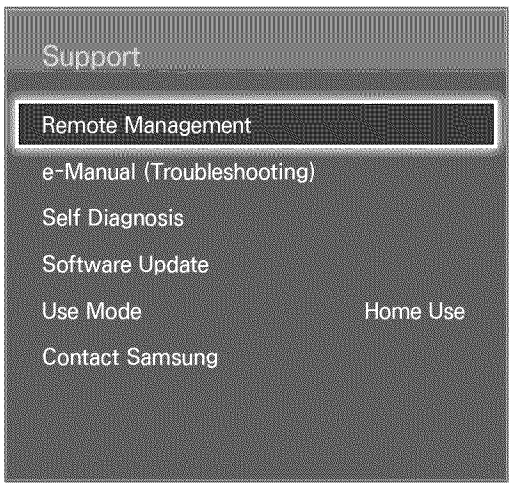
Displays mobile device screens on your TV wirelessly. However, **Screen Mirroring** is only available with mobile devices that support AllShare Cast. For more information, visit the mobile device manufacturer's website.

Depending on the network condition, screen or voice dropouts may occur when the **Screen Mirroring** function is running.

Mobile Device Connection

Run **Screen Mirroring** (**Network** > **AllShare Settings** > **Screen Mirroring**) function. Alternatively, press the SOURCE button and select **Screen Mirroring** from the source list. After running the **Screen Mirroring**, run Mirroring function on the mobile device. The TV will connect with the mobile device, and user can view the connected mobile device's screen on the TV.

Support



The displayed image may differ depending on the model.

The TV has several built-in systems designed for user and TV system support.

Remote Management

Screen Menu > Support > Remote Management Try Now

If you need assistance with your TV, you can use this feature to let Samsung Electronics diagnose your TV remotely. You will need to read and agree to the service agreement before using this feature. A Samsung Electronics technician will then diagnose, repair, and update your TV remotely. However, these features are only available when your TV is connected to the Internet.

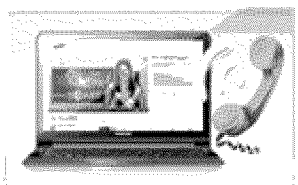
What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely.

- **Diagnose** your TV
- **Adjust the TV settings** for you
- **Perform a factory reset** your TV
- Install recommended **firmware updates**

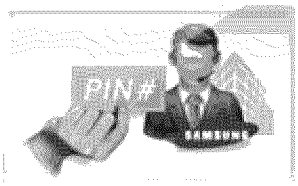
How Does it Work?

Having a Samsung Tech remotely service your TV is really pretty simple



Call Samsung Contact Center and ask for remote support.

Open the menu on your TV and go to the **Support section**.



Select Remote Management and **Provide the Pin#** to the agent.

The agent will then **access your TV**. That's it!

e-Manual

Screen Menu > Support > e-Manual (Troubleshooting)

This TV features a built-in electronic user manual. For details on how to use the e-Manual, See "Viewing the e-Manual".

Self Diagnosis

Screen Menu > Support > Self Diagnosis Try Now

Your TV is capable of diagnosing itself for picture-, sound-, and signal-related issues. The self-diagnosis function consists of the following options:

- Picture Test
- Sound Test
- Voice & Motion Control Environment Check
- Signal Information
- Reset

Picture Test

Screen Menu > Support > Self Diagnosis > Picture Test Try Now

The Picture Test displays a high definition picture to examine it for flaws or faults.

If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Center for assistance. If the test picture is displayed properly, there may be a problem with the external device. Please check the connections. If the problem persists, check the signal strength or refer to the external device's user manual.

Sound Test

Screen Menu > Support > Self Diagnosis > Sound Test Try Now

Use the built-in melody to check for sound problems.

If no melody is played by the TV's speakers, make sure Speaker Select is set to TV Speaker and then try again. If the problem persists, there may be a problem with the TV. Contact Samsung's Call Center for assistance. If the melody is played, there may be a problem with the external device. Please check the connections. If the problem persists, refer to the external device's user manual.

Voice & Motion Control Environment Check

Screen Menu > Support > Self Diagnosis > Voice & Motion Control Environment Check Try Now

Test the ambient noise and brightness levels to see if they are suitable for SMART Interaction use.

Signal Information

Screen Menu > Support > Self Diagnosis > Signal Information Try Now

The signal Information displays the digital channel signal information and strength. Users can then adjust the antenna to increase the signal strength and receive HD channels. This option is only available for digital channels.

Reset

Screen Menu > Support > Self Diagnosis > Reset Try Now

This resets all settings to the factory default settings except for the network settings. Select Reset, enter the PIN code when requested, and then select Yes. All settings are then reset. The TV turns off and on again automatically and then displays the Setup screen. For more information on resetting the TV, refer to the user manual that came with the TV.

Updating the Software

Screen Menu > Support > Software Update Try Now

Check your TV's software version and upgrade it if necessary.

⚠ **DO NOT turn off the TV's power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. All video and audio settings return to the default settings after a software upgrade.**

Update now

Screen Menu > Support > Software Update > Update now Try Now

An online upgrade downloads and installs the upgrade software directly from the Internet. Configure the TV to connect to a network and make sure it can access the Internet.

Manual Update

Download the latest update file from the Samsung website. Decompress the file and copy it into the root directory of a flash drive. Insert the flash drive one of the TV's USB ports to install the update.

Auto Update

Screen Menu > Support > Software Update > Auto Update Try Now

This option upgrades the TV while it is in Standby Mode. In Standby Mode, the TV appears to be turned off but still has access to the Internet. This allows the TV to upgrade itself automatically while it is not in use. Because the TV's internal processes are operating, the screen may emit a faint glow, and this may continue for more than 1 hour until the software download is complete. Check the network configuration and internet connectivity and then enable this option.

Standby Mode Upgrade Settings

Specify when you want the upgrade to take place. This TV can be set to periodically check and install updates.

Usage Mode

Screen Menu > Support > Use Mode Try Now

Select the TV's usage mode. If your TV has been unintentionally set to Store Demo, you can change the mode with this option. Store Demo should be used in retail environments only. With Store Demo, certain functions are disabled and the TV automatically resets itself after a certain amount of time.

Support Info

Screen Menu > Support > Contact Samsung Try Now

Check the information below if your TV is not working properly or you need information on upgrading the software. The section below contains useful information about the product and instruction on obtaining the latest software.

Kensington Security Lock

This function is only available on the LED 7450/7500 series.

A Kensington Security Lock is a physical device that can be used to protect the TV against theft. Look for the Kensington slot on the back of the TV. The slot has a icon next to it. Wrap the lock around an object that is too heavy to carry and then thread it through the TV's Kensington slot. The lock, however, has to be purchased separately.

The method of using a Kensington Security Lock may differ for each TV model. Refer to the Kensington Security Lock manual for more information.

Display Resolution

Connect a computer to the TV and then configure the computer's resolution by referencing the table below. The optimal resolution is 1920 x 1080 @ 60Hz. Choosing an output signal not included in the table can result in a blank screen or just the power indicator being turned on. Refer to the user manual of the graphics card and configure the resolution as indicated below.

IBM

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
720 x 400	70Hz	31.469	70.087	28.322	-/+

MAC

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
640 x 480	67Hz	35.000	66.667	30.240	-/-
832 x 624	75Hz	49.726	74.551	57.284	-/-
1152 x 870	75Hz	68.681	75.062	100.000	-/-

VESA DMT

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
640 x 480	60Hz	31.469	59.940	25.175	-/-
640 x 480	72Hz	37.861	72.809	31.500	-/-
640 x 480	75Hz	37.500	75.000	31.500	-/-
800 x 600	60Hz	37.879	60.317	40.000	+/+
800 x 600	72Hz	48.077	72.188	50.000	+/+
800 x 600	75Hz	46.875	75.000	49.500	+/+
1024 x 768	60Hz	48.363	60.004	65.000	-/-
1024 x 768	70Hz	56.476	70.069	75.000	-/-
1024 x 768	75Hz	60.023	75.029	78.750	+/+
1152 x 864	75Hz	67.500	75.000	108.000	+/+
1280 x 720	60Hz	45.000	60.000	74.250	+/+
1280 x 800	60Hz	49.702	59.810	83.500	-/+
1280 x 1024	60Hz	63.981	60.020	108.000	+/+
1280 x 1024	75Hz	79.976	75.025	135.000	+/+
1366 x 768	60Hz	47.712	59.790	85.500	+/+
1440 x 900	60Hz	55.935	59.887	106.500	-/+
1600 x 900RB	60Hz	60.000	60.000	108.000	+/+
1680 x 1050	60Hz	65.290	59.954	146.250	-/+
1920 x 1080	60Hz	67.500	60.000	148.500	+/+

Picture Size and Input Signal

Input Signal	Picture Size
ATV, AV	16:9, Zoom1, Zoom2, 4:3
Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (720p)	16:9, Wide Fit, 4:3, Smart View 2
DTV (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 2
Component (720p)	16:9, Wide Fit, 4:3
Component (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit
HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 1 (for LED TV), Smart View 2 (for LED TV)
HDMI (2160p) (for UHD S9 Series model)	Screen Fit

The **Picture Size** setting is applied to the current source and the applied **Picture Size** will remain in effect the next time the source is selected.

The **Picture Size** option is not available with images in the UHD resolution because the supported screen size is fixed.

Supported 3D Resolutions

These specifications apply to a display ratio of 16:9 only.

HDMI

3D Format: L/R, T/B

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60
3840 x 2160p (for UHD S9 Series model)	24 / 25 / 30

3D Format: Frame Packing

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30

Component

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

Digital Channel

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60

Videos/Photos

Refer to the "Subtitle and Media Contents file formats, and Codec".

Computer via HDMI

The optimal resolution for using the computer display is 1920 x 1080.

Only LED TVs can convert a 2D computer display into 3D.

If the resolution is not set properly, 3D display and full-screen display may not be available.

Subtitle and Media Contents file formats, and Codec

Subtitle

External

Name	File Extension
MPEG-4 Timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

Internal

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
MPEG-4 Timed text	MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported. Supports up to M2 profile
*.wav	wav	wav	
*.mid *.midi	midi	midi	type 0, type 1 are supported.
*.ape	ape	ape	

Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts	AVI MKV ASF MP4 3GP MOV FLV VRO TS SVAF	Divx 3.11 / 4 / 5 / 6	1920x1080 (WMV v7,v8, MSMPEG4 v3: 1280x720)	6~30	30	AC3 LPCM ADPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3)
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG				
		Microsoft MPEG-4 v3				
		Window Media Video v7,v8,v9				
		MPEG2				
		MPEG1				
		VP6	640x480		4	
		MVC		24/25/30	60	
*.webm	WebM	VP8	1920x1080	6~30	20	Vorbis
*.s4ud	TS	H.264	3840x2160	24/25/30		AC3

Other Restrictions

Codecs may not function properly if there is a problem with the content data.

Video content does not play or does not play correctly if there is an error in the content or container.

Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.

If the Index Table is wrong, the Seek (Jump) function does not work.

When playing video over a network connection, the video may not play smoothly because of data transmission speeds.

Some USB/digital camera devices may not be compatible with the player.

The S4UD format supports only on the UHD S9 Series models. However, the **Picture Size** and the **Rotate** functions are not supported.

Video Decoders

- Supports up to H.264, Level 4.1 (does not support FMO/ASO/RS)
- VC1 AP L4 is not supported.
- All video codecs excluding WMV v7, v8, MSMPEG4 v3, MVC, and VP6:

  Below 1280 x 720: 60 frame max

  Above 1280 x 720: 30 frame max
- GMC 2 over is not supported.
- Supports SVAF top/bottom and left/right only.
- Supports Blu-ray/DVD MVC specs only.

Audio Decoders

- WMA 10 Pro supports up to 5.1 channels. Supports up to M2 profile.
- WMA lossless audio is not supported.
- QCELP, AMR NB / WB is not supported.
- Vorbis is supported for up to 2 channels.
- DD+ is supported for up to 5.1 channels.

3D Precautions

CAUTION!

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D IMAGES. READ THE FOLLOWING CAUTIONS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

- Adults should frequently check on children who are using the 3D function. If your child shows any symptom such as eye fatigue, headache, dizziness, or nausea, stop the child from watching 3D video immediately to rest.
- Do not use the 3D glasses for other purposes such as general eyeglasses, sunglasses, protective goggles, etc.
- While watching 3D content, you may experience eye strain, headache, dizziness and nausea. If eye fatigue occurs, stop viewing 3D video immediately, take off the 3D glasses, and rest.
- Viewing 3D video for an extended period of time may cause eye fatigue. If eye fatigue occurs, stop viewing 3D video immediately, take off the 3D glasses, and rest.
- Do not use the 3D function or 3D glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injury from running into objects, tripping, and/or falling.
- If you sleep with the 3D glasses on, the temples on the glasses may become broken.
- Note that the temples on your 3D glasses are not foldable. Trying to fold the temples by force may damage the glasses.
- Do not shake your 3D glasses repeatedly. Shaking the glasses will power them on and can cause the battery to discharge faster than it should.

SAFETY PRECAUTIONS

The following safety instructions are to ensure your personal safety and prevent property damage. Please read the following to ensure the proper use of the product.

- Do not place the product in a location exposed to direct sunlight, heat, fire or water. This may result in a product malfunction or fire.
- Do not apply force to the lenses of the 3D glasses. Do not drop or bend the product. This may result in a product malfunction.
- Keep components of the 3D glasses out of reach of children, and especially ensure children do not swallow one of the components. If your child swallowed a component, consult your doctor immediately.
- When cleaning the product, do not spray water or cleaner directly onto the surface of the product. Spraying water or cleaner directly onto the glasses may result in fire or electric shock, damage to the product's surface, or cause the indicator labels on the product's surface to come loose.
- Do not use chemicals containing alcohol, solvents, or surfactants, or chemicals such as wax, benzene, thinner,mosquito repellant, lubricant or cleaners. These may cause a discoloration of or cracks in the product surface and cause the indicator labels on the product's surface to come loose.
- Since the product surface and lens are easily scratched, make sure to use a clean soft cloth (the cleaning cloth supplied with the product, a cloth consisting of superfine fibers or cotton flannel) when cleaning to avoid scratching either the surface or the lens. As the product may become scratched if there are any foreign items on the cloth, make sure to shake off any dust before using it.
- Do not disassemble, or attempt to repair or modify your 3D active glasses by yourself.
- Be careful not to let the temple ends of the 3D active glasses harm your eye.
- Do not sleep with the 3D glasses on. The arms on the glasses may become broken.
- Use your hands to put on or remove the 3D glasses.

WARRANTY

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should first return the product to the retailer from whom it was purchased. However, Samsung Authorized Service Centers will comply with this warranty during the Warranty Period. To obtain details, please contact your nearest Authorized Service Center.

PROCEDURE FOR MAKING A WARRANTY CLAIM

To make a claim under the warranty, you must contact the Samsung Contact Center (see details above) during the Warranty Period to discuss the problems you are having with the product. If a repair or replacement is required, you will be provided with a Warranty Claim Number and address of an Authorised Service Center.

If you are provided with a Warranty Claim Number, to obtain a repair or replacement of the product, you must send the product to the Authorised Service Center advised together with:

- a copy of your completed warranty card or, if you have already provided this to Samsung, your name, address and contact telephone number;
- your original receipt, invoice or sales slip for the purchase of the product as new;
- your Warranty Claim Number.
- Samsung will then repair or replace the product and return it to you using the contact details provided.

WARRANTY CONDITIONS

1. The warranty is only valid if the above procedure for making a warranty claim is followed.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Samsung Authorised Service Centers. No reimbursement will be made for repairs carried out by service centers or dealers that are not authorised by Samsung and any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation, nor any damage which may result.

5. The warranty does not apply to any product that has been damaged or rendered defective as a result of any of the following excluded reasons, namely:
    - as a result of accident, misuse, or abuse;
    - through the failure to use this product for its normal purposes;
    - by the use of parts not manufactured or sold by Samsung;
    - by modification without the written permission of Samsung;
    - by damage resulting from transit, neglect, power surge or failure;
    - by damage resulting from lightning, water, fire, or acts of God;
    - as a result of normal wear and tear; or
    - difference in broadcasting methods or product standards between countries.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. NOTHING IN THESE WARRANTY CONDITIONS SHALL EXCLUDE OR LIMIT SAMSUNG'S LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY THE PROVEN NEGLIGENCE OF SAMSUNG, UNLESS SUCH LIMITATION OR EXCLUSION IS PERMITTED BY APPLICABLE LAW.
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10. UNLESS PROVIDED FOR IN THIS WARRANTY, ALL CONDITIONS, WARRANTIES AND TERMS IMPLIED BY STATUTE OR OTHERWISE ARE HEREBY EXCLUDED TO THE MAXIMUM EXTENT PERMISSIBLE BY LAW.
11. The above warranty conditions do not affect your statutory rights as a consumer or otherwise.

S-Recommendation Disclaimer

For U.S.A. only

S Recommendation with Voice Interaction

Recommendation given to common speech commands

Voice Interaction limited to the official language of the country of purchase.Performance may vary based on content availability, clarity and volume of your voice, and ambient noise levels.Strong regional accents may not be recognized.

Certain Samsung Smart TV features may not be available without express consent to the collection and use of personal information.

Certain features within S Recommendation require internet access and may not be available based on service provider, language, dialect and region.

On TV listings are available from many major video providers and broadcasters. For a complete list of supported video providers visit www.samsung.com/ONTV.

Actual remote control may differ from image shown.

S Recommendation

Content recommendations to fit your TV viewing preferences

Certain Samsung Smart TV features may not be available without express consent to the collection and use of personal information.

Certain features within S Recommendation require internet access and may not be available based on service provider, language, dialect and region.

On TV listings are available from many major video providers and broadcasters. For a complete list of supported video providers visit www.samsung.com/ONTV.

Actual remote control may differ from image shown.

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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

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Open Source License Notice

In the case of using open source software, Open Source Licenses are available on the product menu.

Open Source License Notice is written only English.

Screen

If there is a problem with the screen, run Picture Test (Support > Self Diagnosis > Picture Test) to diagnose the issue. If the test fails to identify a problem, there may be a problem with an external device or the signal strength.

There is something wrong with the TV.	Try this!
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of the energy efficiency features. Disable Energy Saving (System > Eco Solution > Eco Sensor) and/or Energy Saving (System > Eco Solution > Energy Saving) and check again.
Component Connections/Screen Color	If you find that the color on your Samsung television screen is not correct or the black and white colors are off, run Self Diagnosis (Support > Self Diagnosis > Picture Test). If the test results are negative, check the following: Are the TV's video input connectors connected to the correct external device video output connectors? Check other connections as well. If the TV is connected to an external device via a component cable, check that the Pb, Pr, and Y jacks are plugged into their proper connectors.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first. Navigate to Picture and adjust Backlight/Cell Light (applicable models), Contrast, Brightness, Sharpness, Color, Tint (G/R) and other picture quality adjustment settings.
Auto Motion Plus/Blur	If you find that there is a blur or "ghost" shadow to the images on your television screen, you might be able to correct the issue using Auto Motion Plus (Picture > Picture Options > Auto Motion Plus).
Unwanted Powering Off	If your Samsung TV appears to turn off by itself, try disabling some of the TV's energy efficiency features. Check if Sleep Timer (System > Time > Sleep Timer) has been enabled. Sleep Timer automatically turns off the TV to save energy after a specified period of inactivity. If the Sleep Timer has not been enabled, see if No Signal Power Off (System > Eco Solution > No Signal Power Off) or Auto Power Off (System > Eco Solution > Auto Power Off) has been enabled.
Problems Powering On	When the TV is turned on, the remote panel receiver flashes 5 times before the screen turns on. If you find that you are having problems powering on your Samsung television, there are a number of things to check before calling the service department. If the power cord is connected properly and the remote panel is operating normally, the problem might be with the antenna cable connection or the cable/satellite box not being turned on. Check the antenna connection or turn on the cable/satellite box.

There is something wrong with the TV.	Try this!
Unable to find a Channel	Run Setup (System > Setup) or Auto Program (Broadcasting > Auto Program).
The TV image does not look as good as it did in the store.	Store displays are all tuned to digital, HD (high definition) channels. If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting true HD content. Cable/Satellite Subscribers: Try HD channels from the channel lineup. Air/Cable Antenna Connection: Try HD channels after performing the Auto Program operation. Adjust the cable/satellite box's video output resolution to 1080i or 720p.
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures such as sports and action movies. A weak or bad quality signal can cause picture distortions. This is not an issue with the TV. Mobile phones used close to the TV (within 1m) may cause noise in analog and digital channels.
The color is wrong or missing.	If you're using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
The color is poor or the picture is not bright enough.	Navigate to Picture and adjust Picture Mode, Brightness, Sharpness, Color, and other picture adjustment settings. See if Energy Saving (System > Eco Solution > Energy Saving) has been enabled. Try resetting the picture. (Picture > Reset Picture)
There is a dotted line on the edge of the screen.	If Picture Size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using AV composite input, connect the video cable (yellow) to the TV's green component jack.
The color is wrong or missing.	If you are using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.

Sound

If you find that there is a problem with the TV's speakers, run Sound Test (Support > Self Diagnosis > Sound Test) to diagnose the issue. If the audio is OK, the sound problem may be caused by the source or signal.

There is something wrong with the TV.	Try this!
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (cable/satellite box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	Navigate to Sound and set Speaker Select to TV Speaker. If you are using an external device, check the device's audio output option. (For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.) If you are using a DVI to HDMI cable, a separate audio cable is required. If your TV has a headphone jack, make sure there is nothing plugged into it. Reboot the connected device by disconnecting and then reconnecting the device's power cable.
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device. For antenna or cable connections, check the signal information. A low signal level may cause sound distortions. Run Self Diagnosis (Support > Self Diagnosis > Sound Test).

3D TV

There is something wrong with the TV.	Try this!
The 3D Active Glasses are not working correctly.	Make sure the glasses are turned on. The 3D Active Glasses may not work properly if there is another 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
The 3D images don't look quite right.	The ideal viewing distance is three times or more the height of the screen. We also recommend sitting with your eyes level with the screen.
The batteries in the 3D glasses don't last.	Turn off the 3D glasses when you are not using them. If you leave the 3D glasses on, the battery lifespan is shortened.

Antenna (Air/Cable) Connection

There is something wrong with the TV.	Try this!
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely. Run Auto Program (Broadcasting > Auto Program) to add all available channels to the channel list. Verify that the antenna is positioned correctly.
There are no captions on digital channels.	Navigate to Caption (Broadcasting > Caption) and change the Caption Mode setting. Some channels may not have caption data.
The picture is distorted.	The compression of video content may cause picture distortions. This is especially true with fast moving pictures such as sports and action movies. A weak signal can cause picture distortions. This is not a problem with the TV.

PC Connection

There is something wrong with the TV.	Try this!
The "Mode Not Supported" message appears.	Set your PC's output resolution so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC. If you are using a DVI to HDMI cable, a separate audio cable is required.

Networking

There is something wrong with the TV.	Try this!
The wireless network connection failed.	Make sure the TV is connected to a wireless IP router.
The Software Update over the network has failed.	Check the network connection status. If the TV is not connected to a network, connect to a network. The upgrade will not proceed if you already have the latest software version.

Miscellaneous

There is something wrong with the TV.	Try this!
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top part of the TV. The bottom portion, however, may feel hot to the touch after extended use. Children watching TV need constant adult supervision to prevent them from touching the TV. This heat, however, is not a defect and does not affect the TV's functionality.
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content. Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or set the TV to full screen.
The "Mode Not Supported" message appears.	Check the supported resolutions of the TV and adjust the external device's output resolution accordingly.
The Captions item in the TV menu is grayed out.	You cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component. The external device's caption function must also be activated.
The TV smells of plastic.	This smell is normal and will dissipate over time.
The TV's Signal Information option is not activated in the Self Diagnosis.	Verify that the current channel is a digital channel. Signal Information is only available with digital channels.
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.

There is something wrong with the TV.	Try this!
Broadcasting is grayed out.	The Broadcasting menu is only available when Source is set to TV. The Broadcasting menu cannot be accessed while watching TV using a cable box or satellite receiver.
The settings are lost after 30 minutes or every time the TV is turned off.	If Use Mode is set to Store Demo, the TV's audio and video settings are automatically reset every 30 minutes. Change Use Mode (Support > Use Mode) to Home Use.
There is an intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If you are mounting the TV to a wall, we recommend using cables with 90-degree connectors.
There are small particles on the TV's bezel.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are using an HDMI or Component source.
A POP (TV's internal banner ad) appears on the screen.	Change Use Mode (Support > Use Mode) to Home Use.
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.
The TV is making a humming noise.	Your TV utilizes high-speed switching circuits and high levels of electrical current, and depending on the brightness level being used may seem slightly noisier than a conventional TV. Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.
Image Retention (Burn In) Issue	This issue affects PDP TVs only. Watching TV for an extended period of time or using the 4:3 screen ratio only may result in burn-ins. PDP TVs are equipped with Pixel Shift screen burn reduction technology. Pixel Shift technology reduces screen burn-ins in PDP TVs. It does this by moving the picture slightly vertically or horizontally. Use Screen Burn Protection (System > Screen Burn Protection) to prevent screen burn-ins.

Anynet+ (HDMI-CEC)

There is something wrong with the TV.	Try this!
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Only one external device may be connected to Receiver. Check if the power cord of the Anynet+ device is properly connected. Check the cable connections of the Anynet+ device. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Check whether the TV remote panel is in TV mode. Check whether the remote panel is Anynet+ compatible. Anynet+ may not function under certain circumstances. (Searching channels, operating Smart Hub or Setup, etc.) If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.
I want to start Anynet+.	Check if the Anynet+ device is properly connected to the TV and then navigate to the System menu to see if Anynet+ (HDMI-CEC) is set to On. After checking, select the virtual remote panel's TOOLS button to display the list. Select Anynet+ (HDMI-CEC) from the list.
I want to exit Anynet+.	Select View TV from the Anynet+ menu. Select a non-Anynet+ device from Source.
The message "Connecting to Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.	You cannot use the remote panel when you are configuring Anynet+ or switching to a viewing mode. Use the remote panel after the TV has completed the Anynet+ configuration or has switched to a viewing mode.
The Anynet+ device won't play.	You cannot use the play function when Setup is progress.
The connected device is not displayed.	Check whether the device supports Anynet+. Check whether the HDMI cable is properly connected. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Scan for Anynet+ devices again. Anynet+ devices must be connected to the TV using an HDMI cable. Make sure the device is connected to your TV with an HDMI cable. Some HDMI cables may not support Anynet+. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please scan for the device again.
The TV audio is not being played through the receiver.	Connect an optical cable to the TV and the receiver. ARC enables digital sound to be output via the HDMI (ARC) port. However, ARC is only available when the TV is connected to an audio receiver that supports ARC.

Apps

There is something wrong with the TV.	Try this!
Some application content only appears in English. How can I change the language?	The application content language may be different from the user interface language. The ability to change the language depends on the service provider.
Some application services do not work.	Check with the service provider. Refer to the help section on the application service provider's website.

Photos, Videos & Music

There is something wrong with the TV.	Try this!
Some files can't be played back.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.

Reset the Personal Info and TV settings

Reset Type	Navigation	Description
TV settings Reset	Screen Menu > Support > Self Diagnosis > Reset	Reset all the settings (Picture, Sound, Broadcasting and Smart Hub, etc), excluding the network settings, to factory defaults.
Smart Hub Reset	Screen Menu > Smart Features > Smart Hub Reset	Reset all saved information relating to Samsung accounts and linked service accounts, as well as Smart Hub service agreements and applications.

Web Browser

1. Select Web Browser. The browsing screen may differ from the one on your computer.
2. The web browser is not compatible with Java applications.
3. You cannot download files. If you attempt to download a file, you will receive an error message instead.
4. The web browser may not be able to access certain websites.
5. Playing Flash videos may be restricted.
6. E-commerce for online purchases is not supported.
7. With websites that have scrollable windows, scrolling through such a window can result in corrupted characters.
8. ActiveX is not supported.
9. Certain options are not accessible in Link Browsing mode. (Switch to Pointer Browsing to activate this.)
10. Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
11. The response to remote commands and the resulting on-screen display may be delayed while a webpage is loading.
12. Loading a webpage may be delayed or suspended completely with certain operating systems.
13. The copy and paste operations are not supported.
14. When composing an email or a simple message, certain functions such as the font size and color selection may not be available.
15. There is a limit to the number of bookmarks and the size of the log file that can be saved.
16. The number of windows that can be opened concurrently varies depending on the search conditions and the TV model.
17. The web browsing speed will vary depending on the network environment.

18. Playing embedded video automatically disables PIP. Video playback may not commence after PIP is disabled. In this case, you will have to reload the page.
19. The web browser supports .mp3 audio files only.
20. The web browser supports a specific file format for importing and exporting bookmarks. (Compatible Format: Netscape-bookmarkfile- 1)
21. The folder tree information is not included when importing and exporting bookmarks.
22. Exporting bookmarks to a USB deviatce connected to the TV saves the bookmarks under a folder named "Samsung SmartTV Bookmark".
23. If Clock (System > Time > Clock) has not been enabled, the browsing history will not be saved.
24. The browsing history is saved in the order of latest to oldest, with the oldest entries being overwritten first.
25. Depending on the types of video/audio codecs supported, it might not be possible to play back certain video and audio files during Flash playback.
26. A sudden change in the picture brightness inside a video window may affect the brightness of the screen. This problem applies to PDP TVs only.
27. Video sources from PC-optimized streaming service providers may not play properly on our proprietary web browser.
28. Using the on-screen QWERTY keyboard automatically disables PIP. (Except when entering a URL.)